

REPORT
ON THE
1989 DISCHARGES
FROM
MUNICIPAL
SEWAGE TREATMENT PLANTS
IN ONTARIO

JUNE 1991



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**REPORT ON THE
1989 DISCHARGES FROM
MUNICIPAL STPs IN ONTARIO**

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Water Resources Branch
Ontario Ministry of the Environment

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EXECUTIVE SUMMARY

The 1989 Municipal Discharge Report provides a comprehensive summary of the performance of all municipal and Ministry of Environment (MOE) operated Sewage Treatment Plants (STPs) in Ontario. Three parameters, Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed. These parameters constitute MOE sewage effluent quality guidelines as defined in Policy 08-01 and the Canada-U.S. Water Quality Agreement.

Four hundred and twelve plants were operating in 1989. Of these, 48 plants were not assessed. Two were new plants commissioned in 1989. One had samples broken in transit before analyses were done. Thirty-five plants did not discharge to surface water in 1989. Ten plants provided insufficient data for assessment without providing reason to the MOE, as compared to 14 from 1988.

Of the 364 plants assessed, 108 (30%) exceeded the Ministry sewage effluent quality guidelines. There has not been a significant change in compliance since last year when 109 STPs out of 362 (30%) plants assessed exceeded the limits.

Specifically, 16 STPs (4% of the total number of STPs assessed) failed BOD in 1989, as compared to 15 (4%) in 1988. Forty-one (11%) failed SS in 1989, as compared to 47 (13%) in 1988. Sixty-four continuous discharge STPs and 12 non-continuous discharge lagoons (21%) failed the monthly TP requirement this year as compared to a total of 78 (22%) in 1988. Of the continuous discharge STPs in 1989, 24 plants failed TP for one month, 13 for 2 months, and 26 plants exceeded for 3 or more months.

Fifty plants failed to meet Ministry effluent guidelines for 3 successive years. Forty-six of them have improvements planned or underway. Four STPs did not report remedial action to the MOE.

Twenty STPs were assessed against the effluent limits stipulated in their Certificates of Approval (C of A). Effluent requirements in the C of A are site-specific and are generally more stringent than the Ministry guideline limits.

Kingsville Lagoon in the Southwest region did not provide sufficient data for C of A assessment. Fifteen out of the 19 plants assessed complied with their Cs of A. Four plants failed to meet their C of A limits. Two of the plants that failed their C of A limits also failed the general effluent quality criteria.

This report summarizes bypass data for mechanical plants only. The extraneous flows in those municipalities served by lagoons are bypassed at the sewer systems rather than at the plant site. Bypasses within the sewer system are regarded as combined sewer overflows and are outside the scope of this assessment report. In 1989, 177 of 244 (73%) mechanical STPs reported bypass data. This is an improvement over 1988, in which only 54% of the mechanical plants reported bypass data.

However, in 1989, only thirty-four out of 177 (19%) plants submitted the complete data set which includes volume, duration and number of instances for primary bypass and secondary bypass that occurred. Primary bypass is defined as the raw sewage that is discharged prior to primary clarification. Secondary bypass is defined as the sewage that has received solids removal at primary clarifiers but bypassed secondary biological treatment process before discharge.

In 1989, a total of $5.7 \times 10^6 \text{ m}^3$ of primary bypass and $2.3 \times 10^6 \text{ m}^3$ of secondary bypass were discharged. These volumes represent 3.0% and 1.0% of the total volume of treated effluent, respectively. The Stamford WPCP in Niagara Falls reported the highest volume of primary bypass ($1.2 \times 10^6 \text{ m}^3$ or 60% of its treated effluent volume). Belleville STP, however, is designed to provide only primary treatment for flows that exceed $55 \times 10^3 \text{ m}^3$. Belleville is allowed by its C of A to bypass secondary treatment when the raw sewage exceeds this volume during wet weather. Both the primary and the secondary bypasses are generally disinfected before discharge.

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1.0 INTRODUCTION

The 1989 Municipal Discharge Report provides a comprehensive summary of the performance of all the municipal and Ministry of Environment (MOE) operated Sewage Treatment Plants (STPs) in Ontario. Three parameters, Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed against Ministry sewage effluent quality guidelines. Twenty STPs were also assessed against the BOD, SS and TP limits stipulated in their Certificates of Approval (Cs of A).

This report provides useful information for the Ministry to prioritize STPs for remedial actions. Remedial actions can ensure that fewer plants will be out of compliance in the future, improving the quality of Ontario's surface waters. The main text of this report presents a brief summary of the number of plants failing BOD, SS and/or TP requirements as outlined in the Ministry effluent guidelines and C of A limits. A comparison of plants exceeding Ministry effluent guidelines between 1986 and 1989 is also discussed. In addition, plants that did not provide sufficient data for assessment and plants that exceeded Ministry effluent guidelines in three successive years are highlighted in the text.

Four appendices accompany this report. Appendix A lists all the plants exceeding Ministry effluent guidelines and indicates if they have proposed or undertaken remedial actions.

Appendix B is a summary of the plants that did not comply with their C of A. The number of plants assessed against their C of A is limited. In 1989, 183 Cs of A were reviewed but only 57 of these which were issued in recent years had compliance limits. The remaining Cs of A contain only specifications and design objectives of treatment processes and equipment to be installed. Due to data processing problems, only 20 STPs were assessed against their Cs of A in this report. Compliance against C of A limits in the remaining 37 STPs was checked by the regional staff during the once per year plant inspection.

Appendix C provides a plant by plant summary of monthly averages for flows, concentrations and loadings of the parameters assessed, effluent guidelines, C of A limits and remedial actions.

Appendix D provides a monthly summary of duration, volume and number of instances of primary bypass and secondary bypass data. Primary bypass is defined as the raw sewage that is discharged prior to treatment at primary clarifiers.

Secondary bypass is defined as the sewage that has received solids removal at primary clarifiers but bypassed secondary biological treatment process before discharge.

2.0 SIGNIFICANCE OF BOD, SS AND TP

BOD, SS and TP have traditionally been used by pollution control engineers as indicators of plant performance and effluent quality. These parameters are used by the Ministry to assess STP compliance.

The strength of sewage is often measured by the 5 day Biochemical Oxygen Demand (BOD5) test. This is the amount of oxygen required by microorganisms to reduce the organic content in sewage to carbon dioxide, measured over a 5 day period. High BOD concentrations in the effluent is an indication of high organic content remaining in the effluent, therefore ineffective treatment was provided. Discharge of such effluent may cause oxygen depletion in receiving waters and other environmental impairment.

Removal of suspended solids in sewage effluent is important since excessive amounts of solids discharged to a water course can cause aesthetic problems and kill fish by clogging their respiratory passages (gills). Also, many trace contaminants such as metals and toxic organics are often associated with the solids.

Total Phosphorus has been identified as a major factor in the eutrophication of receiving waters. Excessive amounts of phosphorus cause rapid growth of algae and weeds. When algae and weeds die, they decompose and use up dissolved oxygen. Lack of dissolved oxygen can kill aquatic organisms.

3.0 MOE GUIDELINE ASSESSMENT CRITERIA

In this report, all STPs are assessed against the Ministry's general effluent guidelines. BOD and SS are assessed on an annual average, based on the general operating requirements of Policy 08-01, "Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters".

Currently, TP is assessed on a monthly average basis as specified in the Canada-U.S. Agreement on Great Lakes Water Quality (October 1983).

Table 1 summarizes the effluent requirements for various types of STPs.

TABLE 1
MINISTRY GENERAL EFFLUENT REQUIREMENTS
 (Based on Policy 08-01
 and Canada-U.S. Agreement, 1983)

Type of Treatment	PARAMETER		
	BOD (Annual Average Basis)	Suspended Solids (Annual Average Basis)	Total Phosphorus (Monthly Average Basis)
PRIMARY:			
Without TP Removal	30% removal	50% removal	n/a
With TP Removal	50% removal	70% removal	1.0 mg/l
SECONDARY:			
Without TP Removal	25 mg/l	25 mg/l	n/a
With TP Removal	25 mg/l	25 mg/l	1.0 mg/l
LAGOONS:			
Without TP Removal	30 mg/l	40 mg/l	n/a
Continuous TP Removal	30 mg/l	40 mg/l	1.0 mg/l
Batch TP removal	25 mg/l	25 mg/l	1.0 mg/l

n/a - not applicable

4.0 MOE CERTIFICATE OF APPROVAL ASSESSMENT CRITERIA

A C of A is a legal document issued by MOE approving the construction and operation of a STP. Cs of A issued in recent years are also used to stipulate the effluent quality and/or loadings of contaminants the STPs are allowed to discharge.

Prior to the construction of a STP, an environmental assessment must be performed to assess the impact of the effluent on the receiving stream. The municipality submits this assessment to MOE for consideration.

Once the site has been approved by MOE, guidelines for the operation of the STP and compliance limits for specific contaminants are established in the C of A.

Failure to comply with C of A can result in enforcement action under the Ontario Water Resources Act or the Environmental Protection Act.

5.0 SAMPLING AND REPORTING REQUIREMENTS

Under the requirements outlined in Policy 08-06, "Policy to Govern Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", STPs are required to provide a Ministry laboratory with a minimum of one influent and one effluent sample per month for analysis. Many facilities supplement this minimum requirement by doing additional analyses at their own laboratories.

Plant operators report monthly average STP flow, influent and effluent concentrations for BOD, TP and SS to the Ministry. Data are checked for accuracy at the Regional Office and then forwarded to the Ministry corporate database for processing.

In addition to reporting effluent quality, STPs also report the following information:

- Municipality
- Plant name
- Treatment type
- Region and District
- Operating authority
- Watercourse, Major Basin and Minor Basin
- IJC Designation

- Design Capacity
- Population Served
- Primary (Plant) Bypass
- Secondary Bypass

This information is available in Appendix C. The Appendix is arranged by Region (Southwest, West Central, Central, Southeast, Northeast and Northwest) and by municipality. Compliance status and remedial measures are also indicated. Regional boundaries and District Offices are shown at the beginning of each section. A summary of facilities by treatment type, operating authority and estimated hydraulic loading design capacity as well as annual average daily flow is also available at the beginning of each section. Appendix D contains the bypass data.

6.0 BACKGROUND INFORMATION OF SEWAGE TREATMENT PLANTS

At the end of 1989, sanitary sewage from systems serving over 7.2 million people was collected and treated by 412 STPs in Ontario.* Many of these plants also receive and treat wastewater discharged by industries. Some plants receive more than 40% of their flow from industries.

Sanitary sewage from the remaining population, for the most part located in rural areas, are treated by individual household septic tank and tile field systems.

Three plants started operation in 1989. They are:

Purcell	Southeast Region
Colchester	Southwest Region
Maxville Lagoon	Southeast Region

Six plants were phased out in 1989. They are:

Carleton Lodge WPCP	Southeast Region
Garden-City-Raceway	West Central Region
West Plant	West Central Region
Tottenham Lagoon	Central Region
Holtyre	Northeast Region
Kapuskasing West End	Northeast Region

Table 2 summarizes STPs by treatment type, operating agency and hydraulic loading design capacity. Table 3 summarizes STPs by treatment type, operating agency and actual annual average daily flow.

*NOTE: A STP may comprise a number of either influent or effluent discharge pipes.

STPs are operated by MOE or the municipality. Larger facilities are usually owned and operated by the municipality(ies) they serve, whereas the Ministry generally operates facilities for smaller municipalities.

In 1989, 241 STPs were operated by the Ministry and 171 were operated by municipalities. Although the Ministry operated a greater number of STPs, Table 3 shows that municipalities treated about 4 times the actual average daily flow treated by the Ministry. Conventional Activated Sludge plants treated 70% of the flow.

STPs in Ontario have a total hydraulic loading design capacity of approximately $6,040 \times 1000 \text{ m}^3/\text{day}$ ranging from $818 \times 1000 \text{ m}^3$ at the Toronto Main STP to $0.045 \times 1000 \text{ m}^3$ at Porquis Junction. Total annual average daily flow is $5,151 \times 1000 \text{ m}^3$ ranging from $779 \times 1000 \text{ m}^3$ at the Toronto Main to zero flow at those plants with no discharge in 1989. The lowest daily average flow in 1989 was $.043 \times 1000 \text{ m}^3$, which occurred at the Cana Water Pollution Control Plant (WPCP) in Pittsburg, Ontario.

Table 4 summarizes annual average daily loadings of BOD, SS and TP to Minor Basins. In 1989, a total of 92 tonnes/day of BOD, 100 tonnes/day of SS and approximately 4.5 tonnes/day of TP were discharged to receiving waters by STPs. Of the Minor Basins, Lake Ontario received the greatest loadings of all 3 parameters in 1989.

TABLE 2
DESIGN CAPACITY SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M ³ /D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	8	20	28	108.10	943.18	1,051.28
Convent. Activated Sludge	32	56	88	1,004.16	3,213.67	4,217.83
Modified Activated Sludge	1	0	1	12.27	0.00	12.27
Contact Stabilization	6	8	14	23.09	46.81	69.91
Extended Aeration	66	29	95	131.50	88.60	220.10
Trickling Filter	0	1	1	0.00	0.91	0.91
High Rate	3	2	5	18.68	77.28	95.96
Oxidation Ditch	9	2	11	11.04	9.45	20.50
Communal Septic Tank	2	3	5	2.01	1.04	3.06
Aerated Lagoon	4	3	7	8.48	12.67	21.15
Convent. Lagoon Continuous	7	9	16	7.23	29.76	36.99
Convent. Lagoon Seasonal	73	24	97	65.53	82.70	148.23
Lagoon and Spray	3	1	4	1.51	0.36	1.88
Aerated Cell Plus Lagoon	14	6	20	53.01	10.44	63.46
Conventional Lagoon Annual	9	2	11	5.53	1.78	7.31
Exfiltration Lagoon	4	4	8	4.41	3.56	7.97
Rotat. Biological Contactor	0	1	1	0.00	58.18	58.18
Total	241	171	412	1,456.55	4,580.46	6,037.08

1000M³/D: Thousands of cubic meters per day

TABLE 3

AVERAGE DAILY FLOW SUMMARY - 1989

Treatment Type	Number			Average Daily Flow (1000M ³ /D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	8	20	28	81.44	892.72	974.16
Convent. Activated Sludge	32	56	88	737.07	2,891.80	3,628.87
Modified Activated Sludge	1	0	1	7.92	-	7.92
Contact Stabilization	6	8	14	20.06	29.46	49.52
Extended Aeration	66	29	95	87.70	64.81	152.51
Trickling Filter	0	1	1	-	20.30	20.30
High Rate	3	2	5	12.64	65.72	78.36
Oxidation Ditch	9	2	11	7.08	3.56	12.64
Communal Septic Tank	2	3	5	0.09	0.11	0.21
Aerated Lagoon	4	3	7	5.59	8.10	13.69
Convent. Lagoon Continuous	7	9	16	8.07	20.27	28.34
Convent. Lagoon Seasonal	73	24	97	49.66	28.65	78.31
Lagoon and Spray	3	1	4	1.11	0.00	1.11
Aerated Cell Plus Lagoon	14	6	20	33.41	9.12	42.53
Conventional Lagoon Annual	9	2	11	2.23	0.69	2.92
Exfiltration Lagoon	4	4	8	2.82	3.06	5.88
Rotat. Biological Contactor	0	1	1	-	56.38	56.38
Total	241	171	412	1,056.89	4,094.75	5,151.64

1000M³/D: Thousands of cubic meters per day

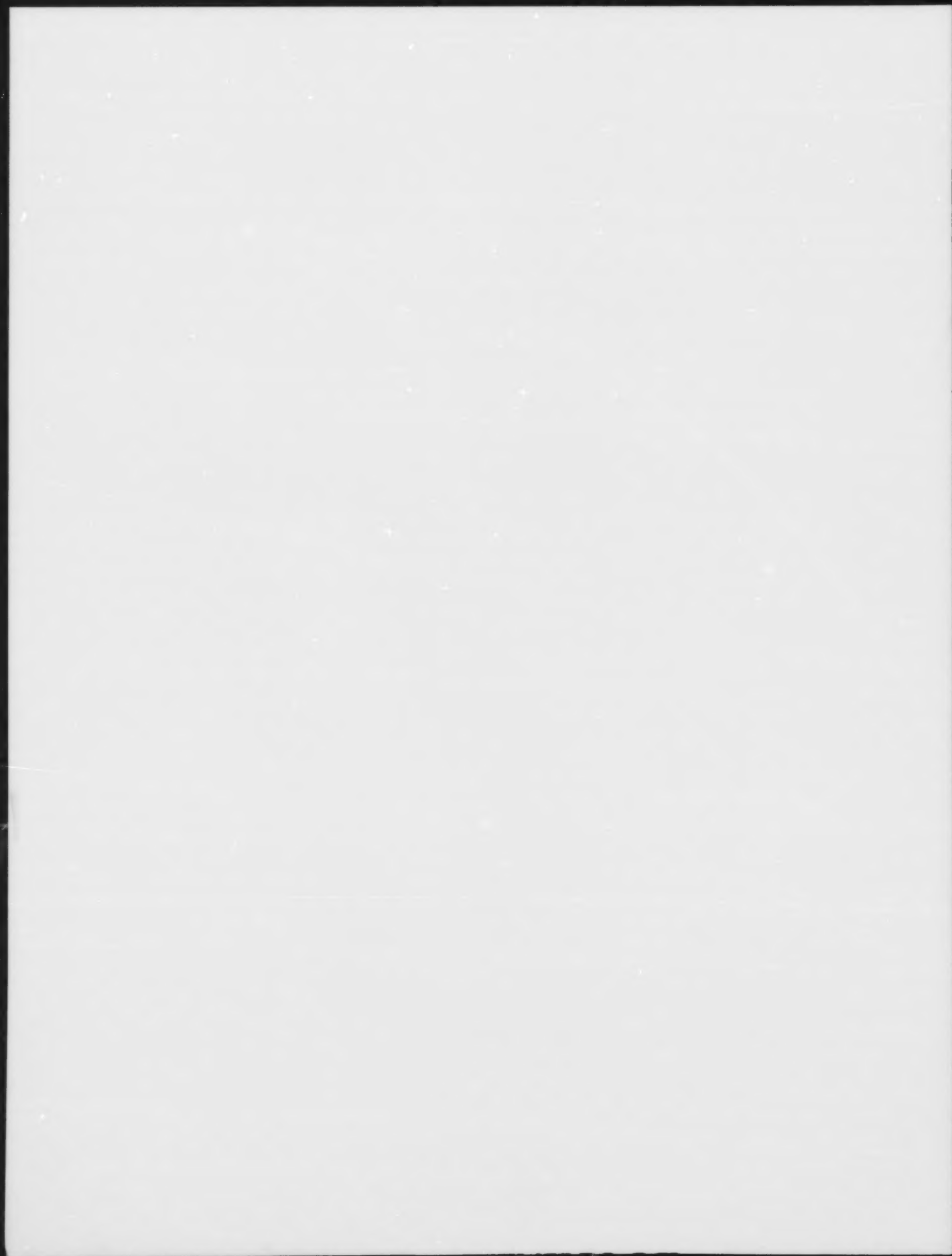
TABLE 4

LOADING OF BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLIDS,
AND TOTAL PHOSPHOROUS TO THE MINOR BASINS

MINOR BASIN	NO. OF PLANTS	ADF 1000 M ³ /D	AVG. CONCENTRATION (MG/L)			AVERAGE LOADING (TONNES/DAY)		
			BOD	SS	TP	BOD	SS	TP
ERIE	104	860.54	14.79	13.49	0.70	12.73	11.61	0.61
HURON	112	390.51	15.69	13.90	0.95	6.13	5.43	0.37
*JAMES BAY	31	67.66	20.90	26.98	2.58	1.41	1.83	0.17
*LK WINNIPEG EAST	13	34.71	18.17	21.76	1.30	0.63	0.76	0.05
ONTARIO	75	2912.04	13.95	16.06	0.68	40.63	46.76	1.99
OTTAWA RIVER	50	588.03	35.10	42.58	1.71	20.64	25.04	1.00
ST. LAWRENCE	15	150.64	26.18	21.19	0.94	3.94	3.19	0.14
SUPERIOR	12	90.48	60.11	63.35	1.58	5.44	5.73	0.14
TOTAL	412	5094.61				91.55	100.33	4.47

Note: *TP removal is not required for those plants discharging into these Water Basins. (MOE Policy 08-04)

ADF = Average Daily Flow



7.0 1989 STATUS ON EFFLUENT GUIDELINE ASSESSMENT

7.1 PLANTS NOT ASSESSED IN THIS REPORT

Of the 412 STPs in Ontario, 48 were not assessed because they did not provide sufficient data for assessment. Many of these did not discharge in 1989. Sufficient data is defined as 9 or more monthly observations for continuous discharge facilities in 1989 and 1 sample/month of discharge for seasonal and annual lagoons. The 48 plants can be divided into the following categories:

- No discharge to surface water

Thirty-five of the 48 plants did not discharge to surface waters. Many of these are exfiltration facilities or lagoons that did not require discharge in 1989. Table 5 summarizes these plants.

- New STPs

Two STPs were not assessed because they started operations in 1989. These plants are included in Table 6.

- Samples lost/broken during transit

One STP was not assessed because its effluent samples were broken in transit to the laboratory. This plant is included in Table 6.

- Insufficient data with no reason

The remaining 10 facilities did not provide a satisfactory explanation to the Ministry for failure to report sufficient data for assessment. These plants are listed in Table 7.

TABLE 5- STPs WITH NO DISCHARGE TO SURFACE WATER

SOUTHWEST

Kingsville	No Discharge
Markdale Lagoon	Exfiltration
McGregor Lagoon	Lagoon and Spray
Tobermory Lagoon	Exfiltration

WEST CENTRAL

Airport WPCP	No Discharge
Townsend Lagoon*	No Discharge

CENTRAL

Beaverton (Sunderland)	Exfiltration
Beeton Lagoon*	Exfiltration
Omeme Lagoon*	Lagoon and Spray
Wasaga Beach WPCP*	Exfiltration
Oshawa Harmony Creek WPCP No.1	No Discharge
Oshawa Harmony Creek WPCP No.2	No Discharge

SOUTHEAST

Embrun PV Lagoon	No Discharge
Lansdowne Lagoon*	Lagoon and Spray
Maxville Lagoon	New Plant
Munster Lagoon	Lagoon and Spray
Williamsburgh Lagoon*	No Discharge

NORTHEAST

Belle Vallee	No Discharge
Capreol Lagoon	Exfiltration
Dubreuville Lagoon*	Exfiltration
Jogues Lagoon	No Discharge
Kapuskasing West End*	Being Phased Out
Killarney Lagoon*	No Discharge
Larder Lake WPCP	Exfiltration
Mattawa Lagoon	Exfiltration
Opasatika Lagoon*	No Discharge
Temagami Lagoon*	No Discharge
Wahnapitae	No Discharge
Warren Lagoon*	No Discharge
White River Lagoon*	No Discharge

NORTHWEST

Beardmore Lagoon*	Exfiltration
Caramat Lagoon	Exfiltration
Madsen WPCP*	No Discharge
Terrace Bay Lagoon	Exfiltration
Terrace Bay WPCP	Exfiltration

* = MOE operated

TABLE 6
SEWAGE TREATMENT PLANTS REPORTING
A REASON FOR
INSUFFICIENT DATA FOR ASSESSMENT

SOUTHWEST

Colchester South Lagoon*	New Plant
--------------------------	-----------

SOUTHEAST

Iroquois WPCP	Samples Broken
Purcell WPCP	New Plant

TABLE 7
SEWAGE TREATMENT PLANTS REPORTING
INSUFFICIENT DATA FOR ASSESSMENT

SOUTHWEST

Kingsville Lagoon
Tilbury Lagoon

CENTRAL

Colborne WPCP	(TP only)
Lakeview WPCP	(BOD only)
Sutton WPCP	(TP only)

NORTHEAST

Cecile Trailer Park Lagoon*	
Cochrane WPCP	
Earlton Lagoon	
Ramore Lagoon*	
Smooth Rock Falls WPCP*	(SS only)

* = MOE operated

7.2 PLANTS MEETING EFFLUENT GUIDELINES

A total of 364 plants were assessed against MOE effluent guidelines. Table 8 shows that 256 plants (70% of the total assessed) met all of the Ministry effluent guideline requirements. This compliance rate is the same as in 1988, when 70% or 253 out of 362 plants assessed were in compliance.

This year, 96% of the STPs assessed met the annual requirement for BOD and 89% of the STPs met the SS annual guideline.

Policy 08-04 and the Canada-U.S. Agreement require all municipal STPs discharging into Lake Erie and recreational waterways, and STPs with a design capacity of 4546 m³/d or more and discharging into the Lake Ontario, St. Lawrence River, Lake Huron, Georgian Bay, and Ottawa River Basins to practice TP removal. Seventy-nine percent of the STPs met the monthly guideline for TP.

7.3 PLANTS EXCEEDING EFFLUENT GUIDELINES

One hundred and eight (30%) of the 364 plants assessed exceeded the Ministry's effluent guidelines by one or more parameters. Table 9 summarizes the number of STPs that exceeded guidelines. Further analysis indicates the following:

- Sixteen (4%) STPs failed BOD guidelines.
- A total of 41 (11%) STPs exceeded the guidelines for SS. Twenty-one of the plants are lagoons. Frequently, lagoons are high in SS due to algal blooms and scouring of bottom sediment from wind action. Controlling algae in lagoon effluent is a universal problem unless sand filters are used.
- Sixty-four continuous discharge STPs and 12 seasonal or annual lagoons (21% of the total STPs assessed) exceeded the limit for TP for one or more months in 1989. Of the continuous discharge plants, 24 exceeded the limit one month, 24 exceeded 2 or 3 months and 17 exceeded more than 3 months. This implies that about 7% of all the plants assessed are frequent offenders with respect to TP. Table 10 summarizes the number of continuous discharge plants exceeding TP limits on a per month basis. Diagram 1 depicts this trend schematically.

TABLE 8
SUMMARY FOR SEWAGE TREATMENT PLANTS
MEETING EFFLUENT GUIDELINES CRITERIA

Region	Total Number of STP	Number of STPs Assessed	Number of STPs Meeting Criteria for			
			All Para- meters	*BOD	* SS	**TP
SOUTHWEST	105	99	67	98	85	78
WEST CENTRAL	55	52	34	49	47	38
CENTRAL	76	68	53	66	64	57
SOUTHEAST	67	60	38	56	50	44
NORTHEAST	82	63	45	57	57	51
NORTHWEST	27	22	19	22	20	20
TOTAL ()	412	364	256 (70%)	348 (96%)	323 (89%)	288 (79%)

The figures within the parentheses are the percentage plants complying with the parameter assessed.

* SS and BOD are assessed on an annual basis.

** TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 9
SUMMARY FOR SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT GUIDELINES CRITERIA

Region	Total Number of STPs	Number of STPs Assessed	STPs Not Meeting Criteria for			
			One or MORE Parameters	*BOD	* SS	**TP
SOUTHWEST	105	99	32	1	14	21
WEST CENTRAL	55	52	18	3	5	14
CENTRAL	76	68	15	2	4	11
SOUTHEAST	67	60	22	4	10	16
NORTHEAST	82	63	18	6	6	12
NORTHWEST	27	22	3	0	2	2
TOTAL ()	412	364	108 (30%)	16 (4%)	41 (11%)	76 (21%)

The figures within the parentheses are the percentage plants non-complying with the parameter assessed.

* SS and BOD are assessed on an annual basis.

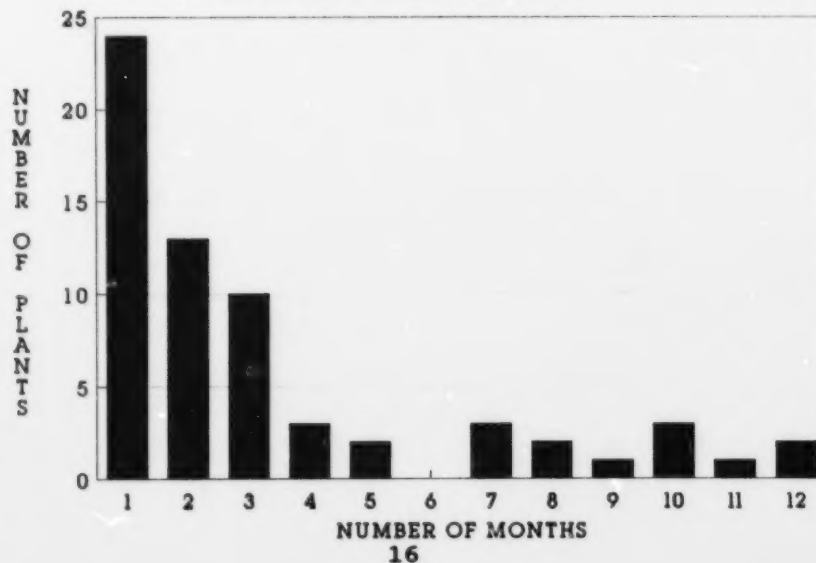
** TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 10
CONTINUOUS DISCHARGE PLANTS EXCEEDING
TOTAL PHOSPHORUS LIMITS

REGION	NUMBER OF MONTHS EXCEEDING TP LIMIT											
	1	2	3	4	5	6	7	8	9	10	11	12
SOUTHWEST	7	2	2	1	0	0	1	1	0	1	1	0
WEST CENTRAL	5	4	3	0	1	0	1	0	0	0	0	0
CENTRAL	6	2	1	0	0	0	1	0	0	1	0	0
SOUTHEAST	3	2	3	1	0	0	0	0	1	1	0	2
NORTHEAST	3	2	1	1	1	0	0	0	0	0	0	0
NORTHWEST	0	1	0	0	0	0	0	1	0	0	0	0
TOTAL	24	13	10	3	2	0	3	2	1	3	1	2

OVERALL TOTAL = 64 STPs

DIAGRAM 1 **CONTINUOUS DISCHARGE PLANTS EXCEEDING**
TOTAL PHOSPHORUS LIMITS



7.4 PLANTS EXCEEDING EFFLUENT LIMITS FOR THREE SUCCESSIVE YEARS

Fifty plants failed to meet Ministry guidelines three years in a row. Table 11 lists these plants and the parameters they failed.

Forty-six of these plants have remedial action plans in place. Depending on the causes of non-compliance, remedial action plans can take several months to several years to take effect (see section 9.0 for more details on the remedial measures program). Four plants have failed effluent guidelines three years in a row and have not reported any remedial actions to the MOE. These plants are:

Brighton Lagoon	Central Region
Warkworth Lagoon	Central Region
Russell Lagoon	Southeast Region
Virginia Town and Kearns	Northeast Region

TABLE 11-1

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION: SOUTHWEST

FACILITY	1989			1988			1987			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
*BLENHEIM LAGOON		*			*	*		*		YES
CHESLEY LAGOON			*			*			*	YES
*COTTAM LAGOON		*			*			*		YES
*DRESDEN WPCP			*		*	*			*	YES
*DUTTON LAGOON		*			*			*	*	YES
*FOREST LAGOON		*			*			*		YES
GODERICH WPCP			*			*			*	YES
*GRAND BEND LAGOON		*			*	*		*		YES
*INGERSOLL NEW WPCP			*			*			*	YES
*LISTOWEL LAGOON			*			*			*	YES
*MERLIN PV LAGOON		*			*			*		YES
*POINT EDWARD WPCP	*	*	*	*		*			*	YES
*PORT BURWELL WPCP			*			*			*	YES
*RIDGETOWN LAGOON		*	*		*	*	*	*	*	YES
*RODNEY LAGOON		*			*		*	*	*	YES
*STONE PT. P.V. LAGOON		*			*			*		YES

* Operated by the Ministry of the Environment

TABLE 11-2

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION: WEST CENTRAL

FACILITY	1989			1988			1987			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
ANGER AVE. WPCP		*	*	*	*	*			*	YES
*BRANTFORD WPCP			*			*			*	YES
CRYSTAL BEACH WPCP			*			*		*	*	YES
*ELMIRA WPCP			*			*			*	YES
*FERGUS WPCP		*			*			*		YES
*HESPELER WPCP		*	*		*	*			*	YES
*PORT DOVER WPCP			*			*			*	YES
*ST. JACOBS PV WPCP			*		*	*			*	YES
*WATERLOO WPCP			*			*			*	YES

* Operated by the Ministry of the Environment

TABLE 11-3

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION: CENTRAL

FACILITY	1989			1988			1987			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
BALA WPCP		*			*			*	*	YES
BRIGHTON LAGOON			*			*			*	NO
COBOURG WPCP NO. 1			*	*		*			*	YES
LINDSAY LAGOON			*			*			*	YES
STAYNER LAGOON		*		*	*	*	*	*	*	YES
WARKWORTH LAGOON		*			*			*		NO

* Operated by the Ministry of the Environment

TABLE 11-4

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION: SOUTHEAST

FACILITY	1989			1988			1987			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
*AMHERSTVIEW LAGOON	*	*			*			*		YES
ARNPRIOR WPCP	*	*	*	*	*	*	*	*	*	YES
BROCKVILLE WPCP		*	*			*			*	YES
*CARLETON PLACE WPCP	*	*	*		*	*		*	*	YES
GREEN CREEK WPCP		*	*	*	*	*		*	*	YES
KEMPTVILLE WPCP			*		*	*		*	*	YES
*MERRICKVILLE WPCP			*			*		*	*	YES
NAPANEE WPCP			*			*		*	*	YES
*RUSSELL LAGOON		*			*			*		NO
SMITHS FALLS WPCP			*			*		*	*	YES
*WESTPORT LAGOON			*			*			*	YES

* Operated by the Ministry of the Environment

TABLE 11-5

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION: NORTHEAST

FACILITY	1989			1988			1987			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
BOB'S LAKE LAGOON	*			*			*			YES
FALCONBRIDGE TOWNSITE WPCP	*	*		*	*		*	*		YES
*KIRKLAND LAKE WPCP			*			*			*	YES
*LAKE TEMISKAMING OLD WPCP			*			*			*	YES
*STURGEON FALLS WPCP			*			*			*	YES
VIRGINIATOWN AND KEARNS WPCP	*	*		*	*		*	*		NO

* Operated by the Ministry of the Environment

TABLE 11-6

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION: NORTHWEST

FACILITY	1989			1988			1987			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
*ATIKOKAN WPCP			*			*			*	YES
THUNDER BAY WPCP		*	*		*	*			*	YES

* Operated by the Ministry of the Environment

8.0 1989 STATUS ON C OF A ASSESSMENT

8.1 PLANTS NOT ASSESSED AGAINST C of A

Most certificates issued before 1985 did not specify compliance limits, but rather design or objective limits. Sixty-nine (126 of 183) percent of the Cs of A identified to date fall into this category. These C of A will not be assessed in this Discharge Report, since they were intended as a guidance rather than a regulatory document.

In recent years, more Cs of A have clearly outlined compliance limits. Many of the older Cs of A are being replaced as STPs are upgraded or expanded.

The complexity of each C of A, as well as the limitations of the MOE computer system, limited the number of STPs that could be assessed in 1989. As a result, only 20 out of 57 STPs were evaluated against their C of A in this report. The effluent limits stipulated in these C of A are presented in Appendix C along with the plant monthly average data. Compliance with C of A limits in the other 37 STPs was checked by regional staff during plant inspections.

8.2 PLANTS COMPLYING WITH C of A

Fifteen of the 19 plants assessed complied with the limits outlined in their C of A. Table 12 summarizes the number of plants, by Region, that meet their C of A limits. Kingsville Lagoon provided insufficient data for assessment.

8.3 PLANTS NOT COMPLYING WITH C of A

The following plants failed to comply with the limits as set out in their C of A:

Tavistock Lagoon	Southwest Region
Port Weller WPCP	West Central Region
Orillia WPCP	Central Region
Green Creek WPCP	Southeast Region

Table 13 summarizes the number of plants by Region, failing their C of A limits.

TABLE 12
SUMMARY FOR SEWAGE TREATMENT PLANTS
MEETING CERTIFICATE OF APPROVAL CRITERIA

Region	Total Number of STPs	Number of STPs Assessed	Number of STPs Meeting Criteria for			
			All Para- meters	*BOD	*SS	**TP
SOUTHWEST	8	7	6	7	6	7
WEST CENTRAL	2	2	1	1	2	2
CENTRAL	5	5	4	5	5	4
SOUTHEAST	2	2	1	1	1	1
NORTHEAST	3	3	3	3	3	3
NORTHWEST	0	0	0	0	0	0
TOTAL ()	20	19	15 (79%)	17 (89%)	17 (89%)	17 (89%)

The figures within the parentheses are the percentage plants complying with the parameter assessed.

TABLE 13
SUMMARY FOR SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL CRITERIA

Region	Total Number of STPs	Number of STPs Assessed	STPs Not Meeting Criteria for			
			One or MORE Parameters	*BOD	* SS	** TP
SOUTHWEST	8	7	1	0	1	0
WEST CENTRAL	2	2	1	1	0	0
CENTRAL	5	5	1	0	0	1
SOUTHEAST	2	2	1	1	1	1
NORTHEAST	3	3	0	0	0	0
NORTHWEST	0	0	0	0	0	0
TOTAL ()	20	19	4 (21%)	2 (11%)	2 (11%)	2 (11%)

The figures within the parentheses are the percentage plants non-complying with the parameter assessed.

9.0 REMEDIAL MEASURES

9.1 TIME REQUIRED FOR REMEDIAL MEASURES TO TAKE EFFECT

There can be many reasons for STP non-compliance. Non-compliance can arise as a result of inadequate process operations, equipment breakdowns, industrial spills into the municipal sewerage systems. These problems can be quickly corrected by improving the plant operations and maintenance program, and enforcing the industrial sewer use control program more diligently. Non-compliance can also be caused by poor process design, hydraulic overloads due to wet weather run-offs or rapid population growth. In these cases, the problems must be corrected by plant modification or expansion which can require up to 5 years to complete.

Plant modification/expansion entail several steps. The owner of the plant first initiates a class environmental assessment which involves a review of the problem and determination of the remedial options by a consultant. The consultant proposal and funding requirements must be approved by the municipal council and the Ministry of Environment before detailed plant design and construction can begin. As an example, the Hespeler STP started its class environmental assessment process in 1985 and is beginning to construct the final phase of plant expansion this year.

9.2 STATUS OF REMEDIAL MEASURES

Forty-two STPs which exceeded effluent guidelines in 1988 (35 of which reported remedial programs) improved their operations or upgraded their facilities sufficiently to meet Ministry guidelines in 1989. Appendix A shows that sixty-seven STPs continued to exceed effluent guidelines in 1989. Forty-one plants that complied in 1988 exceeded the limits in 1989.

Currently, 91 (84%) of the 108 plants exceeding effluent guidelines have some form of remedial action. Appendix A includes a summary of plants which have remedial action in 1989. Appendix C elaborates on these remedial actions on a plant-specific basis.

The number of plants that reported remedial action is summarized in Table 14. Four plants have failed effluent guideline limits for three successive years and have not reported any remedial programs to the MOE.

TABLE 14

SUMMARY OF STPS REPORTING REMEDIAL ACTIONS

Region	Number of STPs Exceeding Guidelines	Number of STPs Reporting Remedial Actions	% of STPs Reporting Remedial Action
SW	32	29	91
WC	18	18	100
C	15	8	53
SE	22	18	82
NE	18	15	83
NW	3	3	100

10.0 ABATEMENT OF STP OPERATIONS

In 1989, Regions initiated a program to inspect plants for compliance with Ministry Acts, Regulations, Policies and Cs of A. All Ministry and municipally-operated STPs are inspected once per year by Regional MOE Environmental Inspectors. Detailed inspections of plant operations, maintenance procedures, process equipment and records are carried out less frequently. After an inspection, the operating authority and the Ministry abatement staff are informed of any deficiencies by way of Inspection Reports.

If significant abatement measures are required, the Abatement Section will be responsible for ensuring that these are undertaken by the Operating Authority within a specified time frame. For Ministry-operated plants, the Utility operations Section would initiate measures to abate the problem or upgrade the facility.

For minor problems, the Environmental Inspector arranges for the Operating Authority to advise the Abatement Section when the deficiencies have been corrected.

Failure of the Operating Authority to comply with Regulations, Acts or Cs of A may result in prosecution by the Ministry's Investigations and Enforcement Branch.

11.0 ENFORCEMENT

The Investigations and Enforcement Branch (IEB) are alerted to action through the Occurrence Report, when a STP fails to comply with a Control Document or reports an environmental incident eg. a spill.

The current procedure for responding to an environmental incident requires a Provincial Officer or Environmental Response Person (ERP) to make an initial response. Information obtained during this initial response is essential to the success of any investigation that follows.

Prosecution may follow for any of the following reasons: the violation poses a significant risk or adverse effect to the environment or humans; the violation is deliberate in nature or if there is a degree of negligence involved; the violation is repeated or warning is disregarded; the violator has concealed information; or, the violator has an unsatisfactory record with Ministry orders.

Guidelines themselves are not legally enforceable but may form the basis to prove an offence through expert testimony in court. The expert must provide evidence to show the violation leads to a significant impairment of the receiving water body.

Enforcement actions that took place in 1989 against STPs are summarized in Table 15.

TABLE 15
ENFORCEMENT ACTIVITIES THAT HAVE GONE TO COURT AGAINST
MUNICIPAL SEWAGE TREATMENT PLANTS

<u>MUNICIPALITY</u>	<u>OFFENCE DESCRIPTION</u>	<u>DISPOSITION</u>
Regional Municipality of Sudbury N.E. Region	Lagoon - Illegal discharge of cell contents	Went to court in 1991
District Municipality of Muskoka Central Region	Lagoon Works - Bypass at pumping station	Guilty Plea Fine -\$2500.00

12.0 HISTORICAL REVIEW

Table 16 compares the number of STPs exceeding MOE guideline limits from 1986 to 1989. Some improvement in compliance with Ministry guidelines occurred over the past 4 years.

Table 17 compares the total number of facilities exceeding monthly TP requirements from 1986 to 1989. A steady improvement in compliance with TP has been observed over the past four years; for example, 49% of the plants requiring phosphorus removal were out of compliance in 1985 but only 29% were out of compliance in 1989.

Table 18 and 19 indicate that there has been little change in compliance with BOD and SS over 4 years.

TABLE 16
NUMBER OF SEWAGE TREATMENT PLANTS
EXCEEDING MOE EFFLUENT GUIDELINE LIMITS
1986 - 1989

Year	Total Number of Facilities Assessed	Number of Facilities Exceeding Guidelines	% Facilities Exceeding Limits
1986	362	151	42
1987	371	138	37
1988	362	109	30
1989	364	108	30

TABLE 17
NUMBER OF SEWAGE TREATMENT PLANTS
EXCEEDING MONTHLY TOTAL PHOSPHORUS LIMITS
1986-1989

Year	Total Number of Facilities with Phosphorus Removal	Number of Facilities Exceeding Monthly Requirements	% Facilities Exceeding Monthly Requirements
1986	258	126	49
1987	262	100	38
1988	265	78	30
1989	265	76	29

TABLE 18
NUMBER OF SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT BOD GUIDELINE LIMITS
1985-1989

Year	Total Number of Facilities Assessed	Number of Facilities Exceeding Requirements	% Facilities Exceeding Limits
1986	362	16	4
1987	362	17	5
1988	362	15	4
1989	364	16	4

TABLE 19
NUMBER OF SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT SS GUIDELINE LIMITS
1985-1989

Year	Total Number of Facilities with Phosphorus Removal	Number of Facilities Exceeding Requirements	% Facilities Exceeding Limits
1986	362	47	13
1987	371	53	14
1988	362	47	13
1989	364	41	11



13.0 BYPASSES

This report only summarizes the bypass that occurs within the boundary of a STP. Bypass occurring outside an STP, including pumping stations located outside the plant property is considered to be a combined sewer overflow and is assessed by regional staff on a case-by-case basis.

Primary bypass is the discharge of raw sewage. Secondary bypass is the sewage that has undergone solids removal at the primary clarifiers of an STP but bypassed the biological treatment process before discharge.

Bypasses may occur for a number of reasons such as:

1. An increase in hydraulic loading due to infiltration or inflow from a storm event or spring thaw;
2. Operational problems, eg., equipment breakdown; or,
3. STP is under-sized.

Bypasses often occur during storm events or spring thaw as a way of preventing micro-organisms from being washed out from the biological treatment process in a secondary plant, or to prevent flooding of the STPs and surrounding areas. Bypasses under dry weather conditions are not allowed since they can be prevented by expanding the treatment plant or properly maintaining process equipment.

STPs are required to report the volume, duration and number of instances of bypasses. Appendix D summarizes the 1989 monthly bypass data for mechanical STPs only. Lagoons typically bypass at off-site locations which are considered as Combined Sewer Overflows.

One hundred and seventy-seven or 73% of the total number of mechanical STPs (244) reported bypass data in 1989. The number of plants reporting bypass data to the Ministry has improved. In 1988, only 54% of the mechanical STPs reported bypass data.

A number of deficiencies in the 1989 database were identified as follows:

1. Only 34 out of 177 (19%) mechanical plants submitted the complete data set which includes volume, duration and number of instances for either primary bypass or secondary bypass. This is an improvement over last year in which only 6 STPs reported complete data sets.

2. Most STPs do not have flow monitoring devices for bypasses; this results in poorly estimated volume.
3. Frequently, there are no devices to record the occurrence of a bypass. A bypass occurring when the plant is not staffed would go unnoticed. As a result, the number of instances and duration of bypasses can be higher than the data reported.
4. This year a number of interpretation problems was evident. Many plants have reported the number of days in a month as opposed to the number of times a bypass occurred in a month.

Keeping these deficiencies in mind, Table 20 should be treated as cursory information only. This table summarizes the total volume, duration, number of instances and ratio of volume of bypass to treated effluent for raw sewage bypass and secondary bypass.

TABLE 20
ANNUAL SUMMARY OF PRIMARY AND SECONDARY BYPASSES

	PRIMARY BYPASS				SECONDARY BYPASS			
	VOLUME (1000m ³)	DURATION (HOURS)	NO. OF TIMES	*RATIO	VOLUME (1000m ³)	DURATION (HOURS)	NO. OF TIMES	*RATIO
TOTAL	5702.79	4,070.9	3893	3.00%	2277.91	5,476.1	1772	1.0%
MAXIMUM	1246.05	1,043.0	364	60.00%	802.95	1,813.0	363	7.5%
PLANT	STAMFORD WPCP	CARLETON PLACE WPCP		STAMFORD WPCP	BELLEVILLE WPCP	BELLEVILLE WPCP		BELLEVILLE WPCP
MINIMUM	0.01	0.1	1	<0.01%	0.15	0.5	1	0.08%
PLANT	EAR FALLS WPCP	SAULT STE. MARIE-WEST END		EAR FALLS WPCP	WELLINGTON WPCP	OAKVILLE SOUTHWEST WPCP		WELLINGTON WPCP

N.B. Ratio (%) is the ratio of bypass effluent over treated effluent (expressed as a percent) at the plants reporting a bypass.

The maximum and minimum data reported are the values for bypassed effluent for a given plant on an annual basis. The plant that bypassed the maximum volume did not necessarily have the maximum duration time nor the number of occurrences.

The longest duration of secondary bypass occurred at Belleville. Belleville was designed to provide only primary treatment for flows in excess of $55 \times 10^3 \text{ m}^3$ during wet weather.

14.0 ENQUIRIES

Enquiries about specific STPs may be directed to the Ministry's Regional Offices or District Offices. These addresses and phone numbers are available in Appendix B at the beginning of each Regional section.

Copies of this report are available from:

Communications Branch,
Ministry of the Environment,
135 St. Clair Ave. W., 6th Floor,
Toronto, Ontario
M4V 1P5
323-4321

Enquiries concerning this report may be directed to:

Ministry of the Environment,
MISA Municipal Office,
Water Resources Branch,
1 St. Clair Ave. W., 9th Floor,
Toronto, Ontario.
M4V 1K6
323-4980

APPENDIX A

WASTEWATER TREATMENT FACILITIES
EXCEEDING EFFLUENT REQUIREMENTS
FOR 1989

EXPLANATORY NOTES FOR APPENDIX A

BOD and SS are assessed on an annual basis.

TP is assessed on a monthly basis. The value associated with the TP column is the number of months per year that the TP limit was exceeded.

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : SOUTHWEST

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
+AILSAS CRAIG WPCP			1		*	YES	1989/09
+BELMONT LAGOON			1		*	YES	1989/05
+BLENHEIM LAGOON		33.4		*	*	YES	1990/04
+BRIGDEN P.V. LAGOON		44.3				YES	1990/04
CHESLEY LAGOON			4	*	*	YES	1989/09
+COTTAM LAGOON		75.3		*	*	YES	1990/04
+DRESDEN WPCP			1	*	*	YES	
+DUTTON LAGOON		36.7		*	*	YES	1991/12
+FOREST LAGOON		74.7		*	*	YES	1990/04
+GLENCOE LAGOON		36.9	1	*		YES	1990/04
GODERICH WPCP			1	*	*	YES	
+GRAND BEND LAGOON		36.7		*	*	YES	1990/04
+INGERSOLL NEW WPCP			8	*	*	YES	1990/01
+INGERSOLL OLD WPCP			10			YES	1990/01
+KINCARDINE LAGOON			7	*		YES	1990/01
LEAMINGTON WPCP			1			NO	
+LISTOWEL LAGOON CONT DI			3	*	*	YES	
+MERLIN PV LAGOON		93.6		*	*	YES	1990/04
+MILDMAY WPCP			1			YES	1989/11
+MITCHELL'S BAY LAGOON		100.3		*		YES	1990/04

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : SOUTHWEST

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
+OIL SPRINGS LAGOON		29.4			*	YES	1990/04
+POINT EDWARD WPCP	21%	43%	11	*	*	YES	1992/01
+PORT BURWELL WPCP			1	*	*	YES	1989/07
+PORT STANLEY LAGOON			1			YES	1990/04
+RIDGETOWN LAGOON		46.4	2	*	*	YES	1990/04
+RODNEY LAGOON		31.3		*	*	YES	
SARNIA WPCP			1	*		NO	
ST THOMAS WPCP			3	*		YES	
+STONE POINT P.V. LAGOON		25.1		*	*	YES	
STRATHROY LAGOON			2		*	YES	1991/06
+WALLACEBURG WPCP			2	*		YES	1990/01
WESTERLY WPCP			1			NO	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : WEST CENTRAL

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
ANGER AVE. WPCP	33.6	28.7	2	*	*	YES	1990
+BRANTFORD WPCP			1	*	*	YES	1990/01
CRYSTAL BEACH WPCP			3	*	*	YES	
+DUNNVILLE WPCP			1			YES	1989/06
+ELMIRA WPCP (COMBINED F			3	*	*	YES	1990
ELORA WPCP			1			YES	1990/01
+FERGUS WPCP		25.9		*	*	YES	
+HESPELER WPCP		38.6	7	*	*	YES	
+JARVIS LAGOON		34.2			*	YES	1990
PORT DALHOUSIE WPCP		25.1	1			YES	
+PORT DOVER WPCP			2	*	*	YES	1993
PORT WELLER WPCP	26.3					YES	1990
+PRESTON WPCP			3			YES	
SEAWAY WPCP	26.7			*		YES	1991
+SHELBURNE WPCP			1	*		YES	1991/01
+ST. JACOBS PV WPCP			2	*	*	YES	1994
+WATERLOO WPCP			5	*	*	YES	1990
WELLAND WPCP			2		*	YES	1991

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : CENTRAL

PLANT NAME	1989 EXCEEDANCES					REMEDIATION PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
BALA WPCP		44%		*	*	YES	1991
BRIGHTON LAGOON			1	*	*	NO	
COBourg WPCP NO 1			7	*	*	YES	1989/12
DUFFIN CREEK WPCP	25.1		1	*		YES	1990/01
FOX ST. WPCP			1			YES	
GEORGETOWN WPCP			1			NO	
HARMONY CREEK 1&2	26.5		1			YES	1990/01
LAKEFIELD LAGOON			1	*		NO	
LINDSAY LAGOON			3	*	*	YES	
MIDLAND WPCP			1		*	NO	
MOUNT ALBERT WPCP		26.0			*	NO	
NORTH TORONTO WPCP			2	*		YES	1989/05
PENETANGUISHENE WPCP			2	*		NO	
STAYNER LAGOON		26.3		*	*	YES	1991/08
WARKWORTH LAGOON		29		*	*	NO	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : SOUTHEAST

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
+ALFRED LAGOON	31.5					NO	
+AMHERSTVIEW LAGOON	30.5	64.6		*	*	YES	
ARNPRIOR WPCP	32%	58%	1	*	*	YES	1992
+BATAWA WPCP			2			NO	
BROCKVILLE WPCP		64%	9	*	*	YES	
+CARLETON PLACE WPCP	31.4	57.5	10	*	*	YES	1992
DEEP RIVER WPCP		42%			*	YES	
GREEN CREEK WPCP		65%	12	*	*	YES	1991
KEMPTVILLE WPCP			12	*	*	YES	1995
+MERRICKVILLE WPCP			3	*	*	YES	
MORRISBURG WPCP		40%			*	YES	
NAPANEE WPCP			3	*	*	YES	1990
+ODESSA WPCP			4	*		YES	1990
+PETAWAWA WPCP			1		*	YES	1990
+RUSSELL LAGOON		72.3		*	*	NO	
SMITHS FALLS WPCP			3	*	*	YES	1993
+ST. ISIDORE LAGOON		296.7				YES	1990
STIRLING LAGOON		43.3	1	*		YES	1990
+TWEED LAGOON			1	*		YES	1990
WATTS CREEK WPCP			1			NO	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : SOUTHEAST

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
WELLINGTON WPCP			2	*		YES	1990
+WESTPORT LAGOON			1	*	*	YES	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989

REGION : NORTHEAST

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
BOB'S LAKE LAGOON	32.3			*	*	YES	1992
+CALLANDER LAGOON		32.8	1			YES	1989/09
CHELMSFORD WPCP			2			YES	1991/01
+ENGLEHART LAGOON			2	*		YES	
+ESPANOLA WPCP		48%				YES	
ESTEN LAKE WPCP	97.6					NO	
FALCONBRIDGE TOWNSITE WP	38.6	44.3		*	*	YES	1990/12
HARTY LAGOON			1			NO	
+KIRKLAND LAKE WPCP			3	*	*	YES	
+LAKE TEMISKAMING NEW WPC			1			YES	
+LAKE TEMISKAMING OLD WPC			1	*	*	YES	
+MOOSONEE WPCP (OLD TOWNS	42.3	45.7		*		YES	
+NEW LISKEARD LAGOON			5			YES	
+ST.CHARLES LAGOON			1	*		YES	
+STURGEON FALLS WPCP			4	*	*	YES	
VIRGINIATOWN AND KEARNS	21%	10%		*	*	NO	
+WAWA LAGOON	6.7	7.6	1			YES	
+WEST END WPCP			1			YES	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1989**

REGION : NORTHWEST

PLANT NAME	1989 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1988	1987		
+ATIKOKAN WPCP			2	*	*	YES	1990
SIoux LOOKOUT WPCP		30.9				YES	
THUNDER BAY WPCP		67%	8	*	*	YES	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

APPENDIX B

WASTEWATER TREATMENT FACILITIES
EXCEEDING C OF A REQUIREMENTS
FOR 1989

EXPLANATORY NOTES FOR APPENDIX B

Each STP has a site specific C of A. Monitoring frequencies indicated on the C of A may vary depending on stream sensitivity and parameter being assessed. Therefore, this appendix only highlights, by an asterisk, which parameter has been exceeded. For more detailed assessment see individual plants in Appendix C.

**SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL REQUIREMENTS IN 1989**

REGION : SOUTHWEST

PLANT NAME	NON-COMPLIANCE			REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
	BOD	SS	TP		
+TAVISTOCK LAGOON		*		NO	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL REQUIREMENTS IN 1989**

REGION : WEST CENTRAL

PLANT NAME	NON-COMPLIANCE			REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
	BOD	SS	TP		
PORT WELLER WPCP	*			YES	1990

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL REQUIREMENTS IN 1989**

REGION : CENTRAL

PLANT NAME	NON-COMPLIANCE			REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
	BOD	SS	TP		
ORILLIA WPCP			*	YES	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

**SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL REQUIREMENTS IN 1989**

REGION : SOUTHEAST

PLANT NAME	NON-COMPLIANCE			REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
	BOD	SS	TP		
GREEN CREEK WPCP	*	*	*	YES	

NOTE:

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

APPENDIX C

WASTEWATER TREATMENT FACILITIES
LISTINGS AND OPERATING DATA
FOR 1989

ABBREVIATIONS FOR APPENDIX C

AVG	Average
BOD	Biochemical Oxygen Demand
INF	Influent
kg/d	Kilograms per day
m ³	Cubic metres
mg/l	Milligrams per litre
Number Exceed	Number of months per year a STP has exceeded the effluent limit
P.V.	Police Village
SS	Suspended Solids
TP	Total Phosphorus
WPCP	Water Pollution Control Plant (same as STP)

CHESLEY LAGOON MUN.OP JAN '87	MUNICIPALITY
CHESLEY LAGOON MUN.OP JAN '87	PLANT
110000105	WORKS NUMBER
CONVENTIONAL LAGOON CONTINUOUS	TREATMENT
PHOSPHORUS REMOVAL-CONTINUOUS	

Number of months per year a STP has exceeded the effluent limit.

REGION	: SOUTHWEST
DISTRICT	: BRUCE
OPERATING AUTHORITY	: MUNICIPAL
WATERCOURSE	: NORTH SAUCEEN RIVER
MINOR BASIN	: HURON
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 1,683

1.45 (1000 M3)

DESIGN CAPACITY

An annual concentration limit

DESIGN CAPACITY : 1.45 (1000 M ³)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M ³)		0.66 ND	0.82 ND	1.23 ND	0.74 ND	0.48 ND	0.37 ND	0.33 ND	0.44 ND	0.37 ND	0.65 ND	0.88 ND	0.66 ND	0.64	
LAGOON DISCHARGE															An annual
BOD5														73.0	
INFLUENT (MG/L)		115.0	84.0	60.6	60.0	69.0	21.4	103.0	ND	69.0	94.0	26.0	93.0		
EFFLUENT (MG/L)		7.1	4.7	6.6	9.5	4.7	1.7	4.5	ND	4.1	3.4	2.8	1.3	50.0	
CONCENTRATION LIMIT (MG/L)														50.0	
LOADING (KG/D)		4.68	3.85	8.11	6.88	2.25	0.62	1.41	ND	1.51	2.21	2.46	0.85	2.08	
SUSPENDED SOLIDS														87.5	
INFLUENT (MG/L)		156.9	89.1	66.1	74.0	70.0	47.9	111.6	ND	114.2	80.6	22.2	122.0		
EFFLUENT (MG/L)		4.0	5.1	8.4	24.8	4.2	8.2	8.6	ND	13.7	3.8	2.7	1.4	40.0	
CONCENTRATION LIMIT (MG/L)														40.0	
LOADING (KG/D)		2.64	4.18	10.33	18.35	2.01	3.03	2.83	ND	5.06	2.47	2.37	0.92	2.08	
TOTAL PHOSPHOROUS														4.7	
INFLUENT (MG/L)		2.1	4.7	8.0	4.8	4.4	2.9	5.6	ND	4.7	6.8	2.1	5.5		
EFFLUENT (MG/L)		0.9	0.9	1.1	1.1	0.9	0.9	1.6	ND	1.8	0.6	0.4	0.5	0.9	
CONCENTRATION LIMIT (MG/L)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)		0.59	0.73	1.35	0.59	0.37	0.33	0.52	ND	0.66	0.39	0.35	0.33	0.58	

NOTE: ASSESSED ANNUALLY

BOD - ASSESSED MONTHLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 OTHER EFFLUENT CRITERIA

TP - ASSESSED MONTHLY
N - EXCEEDS EFFLUENT CRITERIA
- INDICATES A VALUE OF ZERO

SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA

ND - NO DATA
NA - NOT APPLICABLE

NAME _____

monthly concentration limit

	YES	NO
80D	30.0 MG/L	
SS	40.0 MG/L	
TP	1.0 MG/L	

CRITERIA	COMPLIES WITH CONC
SUMMARY	

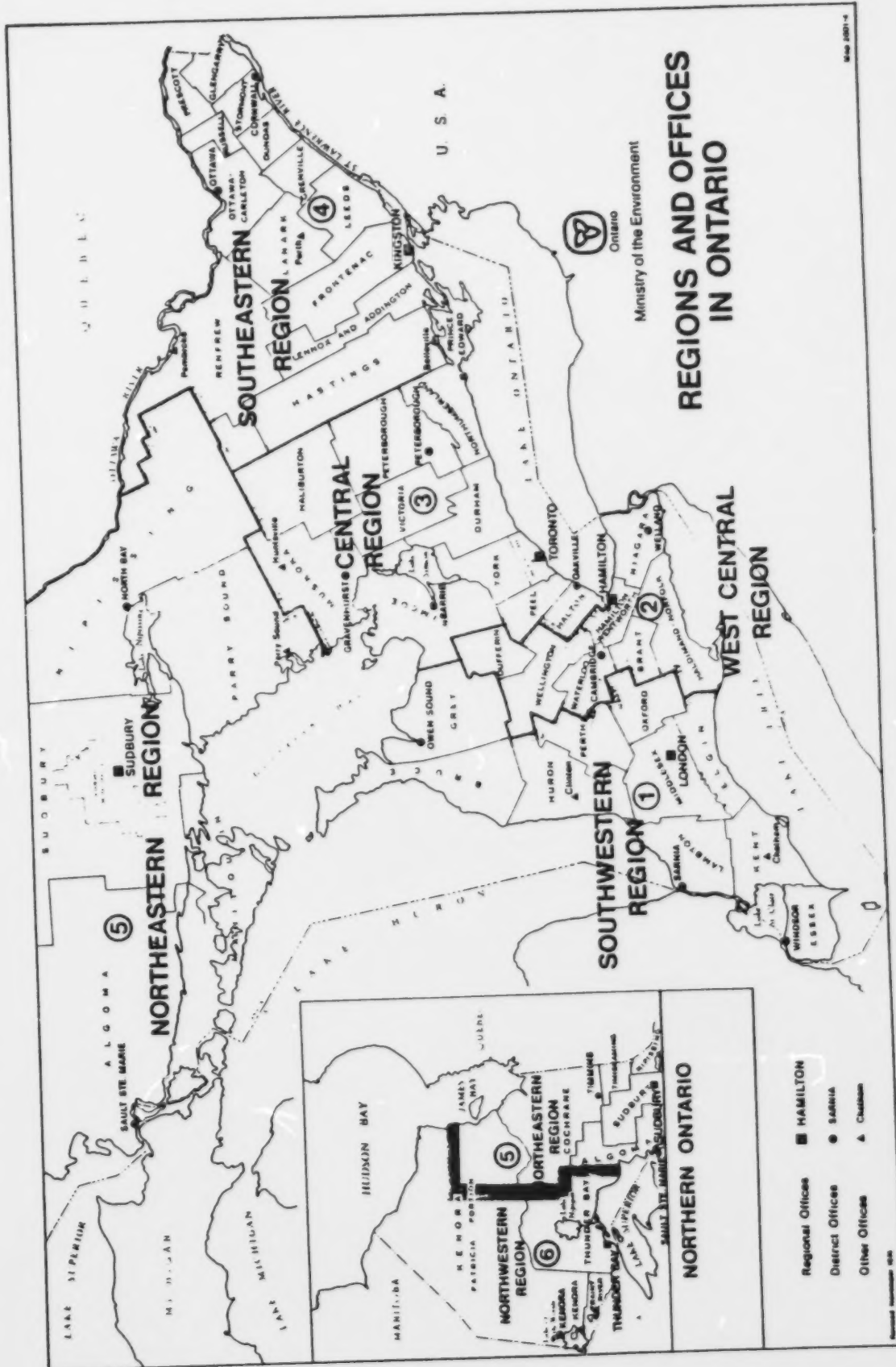
APARM	CRITERIA	WITH CONC
100	10 0 MG/L	YES

BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES

TP	1.0 MG/L	NO	---

NO REMEDIAL MEASURES REPORTED

The value indicating the number of months per year a STP has exceeded the effluent limit



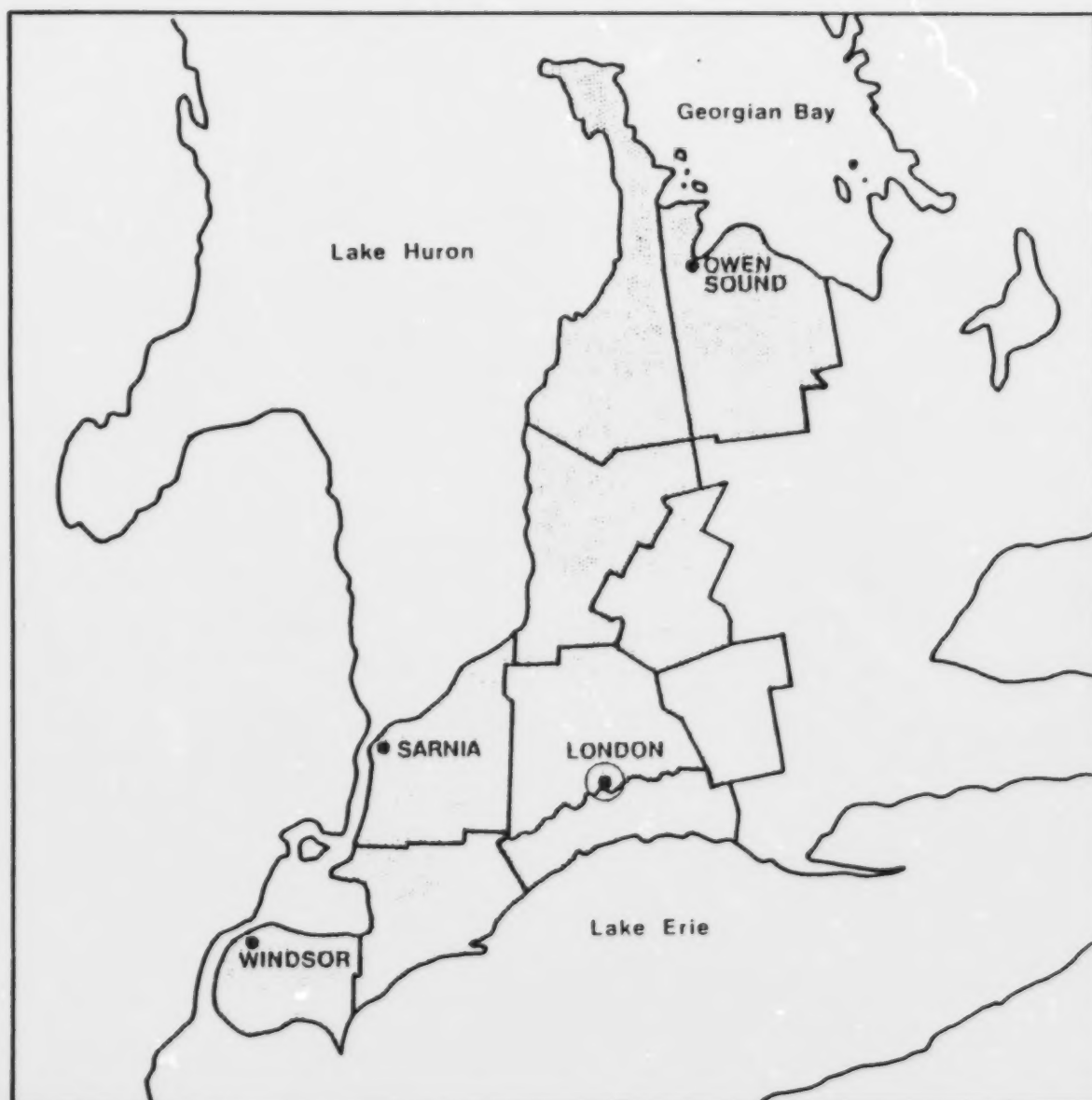
Southwestern Region

①



Ontario

Ministry
of the
Environment



Southwestern Region

①



Ministry
of the
Environment
Ontario

REGIONAL OFFICE

London
985 Adelaide St. South
N6E 1V3
(519) 661-2200

DISTRICT OFFICES

London South
985 Adelaide St. South
N6E 1V3
(519) 661-2200

London North
985 Adelaide St. South
N6E 1V3
(519) 661-2200

Owen Sound
1180 20th St. East
N4K 6H6
(519) 371-2901

Sarnia
265 North Front St.
N7T 7X1
(519) 336-4030

Windsor
250 Windsor Ave.
N9A 6V9
(519) 254-2546

SUB-OFFICES

Chatham
c/o Ministry of
Agriculture & Food
435 Grand Ave. West
N7M 5L1
(519) 354-2150

Clinton
c/o Ministry of
Agriculture & Food
P.O. Box 688
NOM 1L0
(519) 482-3428

SOUTHWEST SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	2	3	5	27.14	237.34	264.48
Conventional Activated Sludge	8	12	20	57.09	359.41	416.50
Contact Stabilization	0	1	1	-	1.82	1.82
Extended Aeration	18	2	20	32.63	23.17	55.80
High Rate	1	0	1	3.90	-	3.90
Oxidation Ditch	2	1	3	3.75	6.45	10.20
Aerated Lagoon	2	2	4	2.94	8.58	11.52
Convent. Lagoon Continuous	2	1	3	3.61	1.46	5.07
Conventional Lagoon Seasonal	31	3	34	34.71	6.31	41.02
Lagoon and Spray	1	0	1	0.57	-	0.57
Aerated Cell Plus Lagoon	7	1	8	20.22	0.17	20.39
Conventional Lagoon Annual	5	0	5	2.15	-	2.15
TOTALS	79	26	105	188.71	644.71	833.42

1000M3/D: Thousands of cubic meters per day
ADF: Average Daily Flow

SOUTHWEST SUMMARY - 1989

Treatment Type	Number			Annual ADF (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	2	3	5	15.18	159.35	174.53
Conventional Activated Sludge	8	12	20	44.61	310.14	354.75
Contact Stabilization	0	1	1	0.00	1.62	1.62
Extended Aeration	18	2	20	17.68	22.21	39.89
High Rate	1	0	1	2.89	0.00	2.89
Oxidation Ditch	2	1	3	1.49	3.97	5.46
Aerated Lagoon	2	2	4	1.21	5.02	6.23
Convent. Lagoon Continuous	2	1	3	3.79	0.79	4.58
Conventional Lagoon Seasonal	31	3	34	23.78	9.06	32.84
Lagoon and Spray	1	0	1	0.57	0.00	0.57
Aerated Cell Plus Lagoon	7	1	8	13.64	0.00	13.64
Conventional Lagoon Annual	5	0	5	1.40	0.00	1.40
TOTALS	79	26	105	126.24	512.16	638.40

1000M3/D: Thousands of cubic meters per day
ADF: Average Daily Flow

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALVINSTON
 PLANT : ALVINSTON WPCP
 WORKS NUMBER : 110002069
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.60 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SYDENHAM RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 690

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.25	0.19	0.20	0.25	0.18	0.19	0.16	0.15	0.18	0.16	0.18	0.24	0.19	
BOD5														
INFLUENT (MG/L)	90.0	116.0	129.0	90.0	163.0	152.0	141.0	158.0	184.0	142.0	118.0	123.0	133.8	
EFFLUENT (MG/L)	3.0	4.9	4.1	4.7	5.4	3.3	1.7	3.4	2.7	0.1	3.6	4.8	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.75	0.93	0.82	1.17	0.97	0.62	0.27	0.51	0.48	0.01	0.64	1.15	0.67	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	123.0	121.0	72.0	175.0	162.0	129.0	161.0	207.0	152.0	109.0	74.0	132.5	
EFFLUENT (MG/L)	8.5	8.2	9.7	4.2	3.4	5.0	4.6	3.1	5.2	5.4	4.1	4.4	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.12	1.55	1.94	1.05	0.61	0.95	0.73	0.46	0.93	0.86	0.73	1.05	1.05	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	10.2	6.8	6.8	6.8	6.8	8.8	7.1	9.1	6.8	7.2	6.5	7.4	
EFFLUENT (MG/L)	0.3	0.8	0.5	0.2	0.2	0.3	0.5	0.6	0.3	0.3	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.07	0.15	0.10	0.05	0.03	0.05	0.08	0.09	0.05	0.04	0.07	0.09	0.08	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: AMHERSTBURG
: AMHERSTBURG WPCP
: 120001087
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
: :
: 7.76 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,500

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.43	5.43	6.06	7.60	5.83	6.45	ND	6.20	7.22	5.66	5.83	5.44	6.20	
BOD5														
INFLUENT (MG/L)	59.0	167.0	167.0	39.0	55.0	ND	31.0	20.0	23.0	91.0	101.0	ND	75.3	
EFFLUENT (MG/L)	7.0	12.2	12.2	12.8	17.9	ND	27.2	ND	11.3	8.6	18.0	ND	14.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	45.01	66.24	73.93	97.28	104.35	ND	ND	ND	81.58	48.67	104.94	ND	87.42	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	176.0	96.0	161.0	169.0	89.0	88.0	121.0	131.0	129.0	128.0	133.0	136.0	129.8	
EFFLUENT (MG/L)	28.6	28.2	28.1	27.0	22.7	28.9	26.8	28.8	28.9	28.8	29.0	29.0	27.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	183.89	153.12	170.28	205.20	132.34	186.40	ND	178.56	208.65	163.00	169.07	157.76	172.98	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	4.2	2.3	2.4	3.3	4.3	2.5	3.2	3.5	3.7	3.5	3.6	3.4	
EFFLUENT (MG/L)	1.0	1.0	0.9	0.9	0.9	0.8	1.0	1.0	1.0	1.0	1.0	0.9	1.0	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	6.43	5.43	5.45	6.84	5.24	5.16	ND	6.20	7.22	5.66	5.83	4.89	6.20	
LOADING LIMIT (KG/D)														

NOTE:

BOD - HAS NO CRITERIA
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	LOADING	CONC	LOADING	COMPLIES WITH
BOD	NA	NA	NA	NA	
SS	30.0 MG/L	NA	YES	NA	
TP	1.0 MG/L	NA	YES	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : AMHERSTBURG
 PLANT : AMHERSTBURG WPCP
 WORKS NUMBER : 120001087
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 : 7.76 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : DETROIT RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 8,500

	1989												ANNUAL AVERAGE	NUMBER EXCEED
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
AVG. DAILY FLOW (1000 M3)	6.43	5.43	6.06	7.60	5.83	6.45	ND	6.20	7.22	5.66	5.83	5.44	6.20	
BOD5														
INFLUENT (MG/L)	59.0	167.0	167.0	39.0	55.0	ND	31.0	20.0	23.0	91.0	101.0	ND	75.3	
EFFLUENT (MG/L)	7.0	12.2	12.2	12.8	17.9	ND	27.2	ND	11.3	8.6	18.0	ND	14.1	
LOADING (KG/D)	45.01	66.24	73.93	97.28	104.35	ND	ND	ND	81.58	48.67	104.94	ND	87.42	
PERCENT REMOVAL	88	93	93	67	67		12		51	91	82		81	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	176.0	96.0	161.0	169.0	89.0	88.0	121.0	131.0	129.0	128.0	133.0	136.0	129.8	
EFFLUENT (MG/L)	28.6	28.2	28.1	27.0	22.7	28.9	26.8	28.8	28.9	28.8	29.0	29.0	27.9	
LOADING (KG/D)	183.89	153.12	170.28	205.20	132.34	186.40	ND	178.56	208.65	163.00	169.07	157.76	172.98	
PERCENT REMOVAL	84	71	83	84	74	67	78	78	78	78	78	79	79	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	4.2	2.3	2.4	3.3	4.3	2.5	3.2	3.5	3.7	3.5	3.6	3.4	
EFFLUENT (MG/L)	1.0	1.0	0.9	0.9	0.9	0.8	1.0	1.0	1.0	1.0	1.0	0.9	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	6.43	5.43	5.45	6.84	5.24	5.16	ND	6.20	7.22	5.66	5.83	4.89	6.20	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	50%	YES	
SS	70%	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: ANDERDON	REGION	: SOUTHWEST
PLANT	: EDGEWATER BEACH LAGOON	DISTRICT	: ESSEX
WORKS NUMBER	: 110002407	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	: DETROIT RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
DESIGN CAPACITY	: 1.61 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 1,869

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.56	0.49	0.56	0.88	0.54	0.83	0.73	0.59	0.58	0.50	0.52	0.50	0.61	
LAGOON DISCHARGE	ND	ND	ND	11.82	91.57	44.32	ND	ND	ND	ND	108.42	14.31	54.09	
BOD5														
INFLUENT (MG/L)	166.0	124.0	116.0	53.0	155.0	70.0	90.0	146.0	97.0	128.0	134.0	174.0	121.1	
EFFLUENT (MG/L)	ND	ND	ND	2.5	4.1	4.4	ND	ND	ND	ND	4.2	16.5	6.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	2.20	2.21	3.65	ND	ND	ND	ND	2.18	8.25	3.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	89.0	133.0	42.0	119.0	63.0	74.0	106.0	78.0	74.0	64.0	48.0	85.0	
EFFLUENT (MG/L)	ND	ND	ND	4.8	4.9	6.4	ND	ND	ND	ND	7.9	22.3	9.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	4.22	2.64	5.31	ND	ND	ND	ND	4.10	11.15	5.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	7.8	7.2	2.6	10.5	5.1	6.7	7.3	5.9	6.7	7.3	7.7	6.9	
EFFLUENT (MG/L)	ND	ND	ND	0.1	0.2	0.5	ND	ND	ND	ND	0.3	0.6	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)	ND	ND	ND	0.08	0.10	0.41	ND	ND	ND	ND	0.15	0.30	0.18	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ANDERDON
: MCGREGOR LAGOON
: 110002096
: LAGOON AND SPRAY
: NO DISCHARGE

DESIGN CAPACITY

: 0.56 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC TO SURFACE WATER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,734

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.48	0.52	0.60	0.57	0.67	0.79	0.50	0.56	0.52	0.61	0.49	0.57	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	13.60	117.34	ND	ND	ND	ND	65.47	
BOD5														
INFLUENT (MG/L)	116.0	130.0	159.0	84.0	162.0	87.0	115.0	136.0	130.0	104.0	159.0	163.0	128.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	8.0	5.0	ND	ND	ND	ND	6.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	6.32	2.50	ND	ND	ND	ND	3.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	128.0	164.0	88.0	129.0	120.0	83.0	128.0	122.0	122.0	97.0	117.0	118.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	18.2	12.1	ND	ND	ND	ND	15.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	14.37	6.05	ND	ND	ND	ND	8.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	8.3	9.0	4.7	6.0	6.6	6.8	6.7	6.7	5.6	6.9	8.5	6.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	0.3	0.3	ND	ND	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	0.23	0.15	ND	ND	ND	ND	0.17	

SUMMARY

PARAM	CRITERIA	COMPLIES
BOD	NA	WITH CONC
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY :
PLANT :
WORKS NUMBER :
TREATMENT :

: ARRAN
: TARA LAGOON
: 110003237
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY :

0.65 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUBLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 637

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.25	0.22	0.33	0.23	0.20	0.21	0.20	0.19	0.20	0.21	0.23	0.23	0.23	
LAGOON DISCHARGE	ND	ND	ND	56.09	ND	ND	ND	ND	ND	ND	21.72	ND	38.91	
BOD5														
INFLUENT (MG/L)	137.0	158.0	137.0	132.0	180.0	194.0	188.0	134.0	262.0	121.0	130.0	172.0	162.1	
EFFLUENT (MG/L)	ND	ND	ND	9.5	ND	ND	ND	ND	ND	ND	2.0	ND	5.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	2.18	ND	ND	ND	ND	ND	ND	0.46	ND	30.0	
LOADING (KG/D)	ND	ND	ND	2.18	ND	ND	ND	ND	ND	ND	0.46	ND	1.33	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	187.0	226.0	110.0	208.0	150.0	269.0	124.0	101.0	367.0	101.0	83.0	118.0	170.3	
EFFLUENT (MG/L)	ND	ND	ND	32.8	ND	ND	ND	ND	ND	ND	8.2	ND	20.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	7.54	ND	ND	ND	ND	ND	ND	1.88	ND	40.0	
LOADING (KG/D)	ND	ND	ND	7.54	ND	ND	ND	ND	ND	ND	1.88	ND	4.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.9	8.0	7.0	10.2	8.2	8.9	8.0	6.3	13.0	7.5	5.9	6.2	8.2	
EFFLUENT (MG/L)	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	0.6	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	0.13	ND	0.16	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY	: AYLMER	REGION	: SOUTHWEST
PLANT	: AYLMER LAGOON	DISTRICT	: ELGIN
WORKS NUMBER	: 110000891	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: AERATED CELL PLUS LAGOON	WATERCOURSE	: CATFISH CREEK
	: SUMMER STORAGE	MINOR BASIN	: ERIE
	: PHOSPHORUS REMOVAL-CONTINUOUS	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 5.23 (1000 M3)	POPULATION SERVED	: 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.65	3.18	3.35	4.44	3.53	3.47	2.60	2.50	2.58	2.65	3.52	2.77	3.19	
LAGOON DISCHARGE	ND	ND	168.68	ND	199.59	ND	ND	ND	ND	ND	541.81	ND	303.36	
BOD5														
INFLUENT (MG/L)	122.0	105.0	143.0	150.0	173.0	137.0	252.0	105.0	199.0	213.0	191.0	248.0	169.8	
EFFLUENT (MG/L)	ND	ND	18.4	ND	2.7	ND	ND	ND	ND	ND	1.5	ND	7.5	
CONCENTRATION LIMIT (MG/L)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
LOADING (KG/D)	ND	ND	61.64	ND	9.53	ND	ND	ND	ND	ND	5.28	ND	23.93	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	125.0	81.0	87.0	156.0	86.0	75.0	101.0	80.0	100.0	70.0	75.0	88.0	93.7	
EFFLUENT (MG/L)	ND	ND	9.3	ND	4.0	ND	ND	ND	ND	ND	2.2	ND	5.2	
CONCENTRATION LIMIT (MG/L)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
LOADING (KG/D)	ND	ND	31.15	ND	14.12	ND	ND	ND	ND	ND	7.74	ND	16.59	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	10.7	13.9	6.3	7.0	7.6	9.5	9.5	16.0	20.2	13.0	10.9	11.0	
EFFLUENT (MG/L)	ND	ND	0.8	ND	0.4	ND	ND	ND	ND	ND	0.4	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	2.68	ND	1.41	ND	ND	ND	ND	ND	1.40	ND	1.60	
LOADING LIMIT (KG/D)														

NOTE:

BOD - ASSESSED MONTHLY
 SS - ASSESSED MONTHLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH	
PARAM	CRITERIA	LOADING	CONC
BOD	25.0 MG/L	NA	YES
SS	30.0 MG/L	NA	YES
TP	1.0 MG/L	NA	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : AYLMER LAGOON
 PLANT : AYLMER LAGOON
 WORKS NUMBER : 110000891
 TREATMENT : AERATED CELL PLUS LAGOON
 : SUMMER STORAGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : 5.23 (1000 M3)
 DESIGN CAPACITY : 5,500

REGION : SOUTHWEST
 DISTRICT : ELGIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CATFISH CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.65	3.18	3.35	4.44	3.53	3.47	2.60	2.50	2.58	2.65	3.52	2.77	3.19	
LAGOON DISCHARGE	ND	ND	168.68	ND	199.59	ND	ND	ND	ND	ND	541.81	ND	303.36	
BOD5														
INFLUENT (MG/L)	122.0	105.0	143.0	150.0	173.0	137.0	252.0	105.0	199.0	213.0	191.0	248.0	169.8	
EFFLUENT (MG/L)	ND	ND	18.4	ND	2.7	ND	ND	ND	ND	ND	1.5	ND	7.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	61.64	ND	9.53	ND	ND	ND	ND	ND	5.28	ND	30.0	
LOADING (KG/D)													23.93	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	125.0	81.0	87.0	156.0	86.0	75.0	101.0	80.0	100.0	70.0	75.0	88.0	93.7	
EFFLUENT (MG/L)	ND	ND	9.3	ND	4.0	ND	ND	ND	ND	ND	2.2	ND	5.2	
CONCENTRATION LIMIT (MG/L)	ND	ND	31.15	ND	14.12	ND	ND	ND	ND	ND	7.74	ND	40.0	
LOADING (KG/D)													16.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	10.7	13.9	6.3	7.0	7.6	9.5	9.5	16.0	20.2	13.0	10.9	11.0	
EFFLUENT (MG/L)	ND	ND	0.8	ND	0.4	ND	ND	ND	ND	ND	0.4	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	2.68	ND	1.41	ND	ND	ND	ND	ND	1.40	ND	1.60	

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BELMONT LAGOON
: BELMONT
: 110002032
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
:
DESIGN CAPACITY : 0.56 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : KETTLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,150

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.41 ND	0.36 ND	0.42 ND	0.54 64.80	0.39 ND	0.44 ND	0.40 ND	0.37 ND	0.41 ND	0.37 52.00	0.48 62.76	0.39 ND	0.42 59.85	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	81.0 ND ND ND	79.0 ND ND ND	113.0 ND ND ND	84.0 13.2 7.12	128.0 ND ND	109.0 ND ND	118.0 ND ND	102.0 ND ND	119.0 ND ND	132.0 3.0 1.11	80.0 3.5 1.68	114.0 ND ND	104.9 6.6 30.0 2.77	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	87.0 ND ND ND	112.0 ND ND ND	116.0 ND ND ND	58.0 12.5 6.75	83.0 ND ND	123.0 ND ND	97.0 ND ND	94.0 ND ND	105.0 ND ND	125.0 6.2 2.29	72.0 9.0 4.32	238.0 ND ND	109.2 9.2 40.0 3.86	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	6.2 ND 1.0 ND	6.5 ND 1.0 ND	7.6 ND 1.0 ND	4.8 1.3* 1.0 0.70	6.7 ND 1.0 ND	7.4 ND 1.0 ND	6.2 ND 1.0 ND	5.5 ND 1.0 ND	6.8 ND 1.0 ND	8.5 0.6 0.22	5.0 0.1 0.04	606.0 ND 1.0 ND	56.4 0.7 0.29	1

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY	COMPLIES WITH CONC
PARM CRITERIA	YES
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
OPERATIONAL/PROCESS - CONDUCTING TREATABILITY STUDIES

START DATE END DATE ANTICIPATED
COMPLIANCE

1989/05 1989/10 1989/05
1989/10 1990/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLANDFORD-BLENHEIM
 PLANT : PLATTSVILLE LAGOON
 WORKS NUMBER : 110003022
 TREATMENT : AERATED CELL PLUS LAGOON
 : SEASONAL DISCHARGE
 : PHOSPHORUS REMOVAL - BATCH
 : 0.59 (1000 M3)
 DESIGN CAPACITY : 795

REGION : SOUTHWEST
 DISTRICT : OXFORD
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : NITH RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 795

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.42	0.45	0.46	0.42	0.34	0.42	0.36	0.42	0.33	0.37	0.40	0.38	0.40	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	274.0	90.0	ND	130.0	ND	86.0	266.0	254.0	161.0	164.0	123.0	188.0	173.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	18.2	ND	ND	ND	ND	ND	1.4	ND	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	6.18	ND	ND	ND	ND	ND	0.56	ND	3.92	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	300.0	101.0	ND	227.0	ND	115.0	474.0	162.0	191.0	159.0	113.0	146.0	198.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	26.6	ND	ND	ND	ND	ND	6.8	ND	16.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	9.04	ND	ND	ND	ND	ND	2.72	ND	6.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	4.2	ND	5.1	ND	3.5	15.4	4.0	5.3	6.3	5.4	6.4	6.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	0.1	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.20	ND	ND	ND	ND	ND	0.04	ND	0.16	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE : 1988/02
 END DATE : 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY

: BLENHEIM
 : BLENHEIM LAGOON
 : 120001666
 : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH

REGION

: SOUTHWEST
 DISTRICT : KENT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CAMERON DR - MCGREGOR CK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,200

DESIGN CAPACITY

: 1.95 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.56	1.39	1.55	1.65	2.10	1.84	1.57	1.82	1.52	1.30	1.29	1.19	1.57	
LAGOON DISCHARGE	ND	ND	ND	255.59	ND	ND	ND	ND	ND	ND	354.40	ND	305.00	
BOD5														
INFLUENT (MG/L)	146.0	139.0	124.0	148.0	134.0	148.0	172.0	159.0	572.0	144.0	170.0	160.0	184.7	
EFFLUENT (MG/L)	ND	ND	ND	19.3	ND	ND	ND	ND	ND	ND	25.1	ND	22.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	31.84	ND	ND	ND	ND	ND	ND	32.37	ND	34.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	244.0	208.0	102.0	114.0	91.0	144.0	170.0	135.0	443.0	143.0	154.0	113.0	171.8	
EFFLUENT (MG/L)	ND	ND	ND	27.2	ND	ND	ND	ND	ND	ND	39.6	ND	33.4*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	44.88	ND	ND	ND	ND	ND	ND	51.08	ND	52.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	8.3	7.4	8.2	7.0	7.6	6.7	7.7	10.0	7.6	8.4	8.2	7.8	
EFFLUENT (MG/L)	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	0.6	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.94	
LOADING (KG/D)	ND	ND	ND	0.99	ND	ND	ND	ND	ND	ND	0.77	ND		

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

COMPLIES WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L NO
 TP 1.0 MG/L YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

ANTICIPATED

START DATE END DATE COMPLIANCE

1988/02 1990/01 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BLYTH
: BLYTH WPCP
: 110002247
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 0.73 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLYTH CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 890

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.42	0.40	0.42	0.42	0.37	0.28	0.29	0.30	0.27	0.29	0.34	0.33	0.34	
BOD5														
INFLUENT (MG/L)	94.0	152.0	187.0	77.0	128.0	117.0	166.0	112.0	158.0	121.0	108.0	120.0	128.3	
EFFLUENT (MG/L)	1.1	3.7	1.9	2.3	2.6	2.3	2.2	1.3	1.2	1.8	6.0	2.1	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.46	1.48	0.79	0.96	0.96	0.64	0.63	0.39	0.32	0.52	2.04	0.69	0.82	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	153.0	180.0	306.0	70.0	124.0	98.0	255.0	215.0	191.0	130.0	91.0	192.0	167.1	
EFFLUENT (MG/L)	0.6	5.2	2.1	3.9	1.5	1.8	2.5	1.7	2.2	1.2	2.6	4.9	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.25	2.08	0.88	1.63	0.55	0.50	0.72	0.51	0.59	0.34	0.88	1.61	0.85	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	8.6	9.2	5.8	7.1	6.4	9.5	8.1	14.0	7.1	5.6	9.5	8.1	
EFFLUENT (MG/L)	0.2	0.7	0.2	0.4	0.2	0.2	0.3	0.2	0.4	0.2	0.3	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.10	
LOADING (KG/D)	0.08	0.28	0.08	0.16	0.07	0.05	0.08	0.06	0.10	0.05	0.10	0.09	0.10	

SUMMARY
COMPLIES
WITH CONC
PARAM CRITERIA
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BRUSSELS
: BRUSSELS WPCP
: 110002354
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 0.88 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAITLAND RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,010

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.32	0.37	0.45	0.46	0.35	0.48	0.32	0.31	0.30	0.32	0.40	0.37	0.37	
BOD5														
INFLUENT (MG/L)	93.0	174.0	159.0	277.0	169.0	121.0	51.0	48.0	128.0	137.0	189.0	261.0	150.6	
EFFLUENT (MG/L)	2.5	3.1	3.4	3.4	3.8	2.0	3.3	1.5	1.9	1.9	3.0	1.8	2.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.80	1.14	1.53	1.56	1.33	0.96	1.05	0.46	0.57	0.60	1.20	0.66	0.96	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	246.0	237.0	403.0	243.0	132.0	168.0	218.0	108.0	268.0	253.0	250.0	223.0	
EFFLUENT (MG/L)	1.3	1.9	2.8	2.1	1.8	1.2	2.2	2.8	1.9	1.7	2.6	4.6	2.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.41	0.70	1.26	0.96	0.63	0.57	0.70	0.86	0.57	0.54	1.04	1.70	0.81	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	12.6	9.7	18.3	11.2	8.5	9.6	10.4	8.6	11.3	10.8	12.5	10.9	
EFFLUENT (MG/L)	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.03	0.07	0.09	0.09	0.07	0.04	0.06	0.09	0.09	0.06	0.08	0.03	0.07	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: CHATHAM
: CHATHAM WPCP
: 11000098
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 35.91 (1000 M3)

DESIGN CAPACITY

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 41,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	21.12	22.35	25.45	31.40	31.09	30.41	24.53	26.13	26.74	27.12	27.29	22.16	26.32	
BOD5														
INFLUENT (MG/L)	127.0	171.0	178.0	187.0	161.0	131.0	136.0	137.0	155.0	145.0	180.0	195.0	158.6	
EFFLUENT (MG/L)	4.3	7.1	10.2	6.9	5.7	3.4	7.1	6.9	6.5	5.1	10.5	6.5	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	90.81	158.68	259.59	216.66	177.21	103.39	174.16	180.29	173.81	138.31	286.54	144.04	176.34	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	210.0	189.0	193.0	196.0	223.0	150.0	174.0	213.0	358.0	216.0	192.0	251.0	213.8	
EFFLUENT (MG/L)	9.1	12.6	23.7	14.8	13.2	13.2	20.5	26.2	26.8	25.1	22.1	12.7	18.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	192.19	281.61	603.16	464.72	410.38	401.41	502.86	684.60	716.63	680.71	603.10	281.43	481.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	13.3	17.1	13.8	11.1	11.7	10.4	11.8	8.8	9.6	8.1	12.6	10.3	11.6	
EFFLUENT (MG/L)	0.6	0.9	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.3	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	16.89	20.11	15.27	15.70	12.43	12.16	12.26	13.06	10.69	13.56	8.18	11.08	13.16	

SUMMARY

PARAM COMPLIES
CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L YES

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHESLEY
 PLANT : CHESLEY LAGOON
 WORKS NUMBER : 110000105
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.45 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NORTH SAUGEEN RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,883

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.67	0.48	1.17	0.76	0.85	0.82	0.66	0.63	0.76	0.72	1.10	0.86	0.79	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	96.0	122.0	144.0	90.0	93.0	78.0	118.0	67.0	113.0	73.0	49.0	85.0	94.0	
EFFLUENT (MG/L)	6.4	4.7	11.5	23.6	21.6	2.8	1.8	0.1	3.0	2.2	2.2	5.1	7.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.28	2.25	13.45	17.93	18.36	2.29	1.18	0.06	2.28	1.58	2.42	4.38	5.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	145.0	165.0	45.0	82.0	104.0	174.0	209.0	82.0	104.0	97.0	58.0	267.0	127.7	
EFFLUENT (MG/L)	6.6	9.0	7.2	7.6	22.6	2.9	32.3	2.3	2.6	2.0	3.8	3.1	8.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	4.42	4.32	8.42	5.77	19.21	2.37	21.31	1.44	1.97	1.44	4.18	2.66	6.72	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	6.1	7.4	2.5	5.2	4.4	5.0	7.1	4.7	8.5	5.4	2.4	4.5	5.3	
EFFLUENT (MG/L)	1.1*	1.5*	1.8*	1.0	0.9	1.6*	1.0	0.5	0.8	0.6	0.4	0.3	1.0	4
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.73	0.72	2.10	0.76	0.76	1.31	0.66	0.31	0.60	0.43	0.44	0.25	0.79	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

START DATE : 1989/09
 END DATE :
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CLEARWATER TOWN
 PLANT : BRIGHT'S GROVE LAGOON
 WORKS NUMBER : 110001989
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 1.75 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CREEK TO L. HURON
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,150

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.21	1.09	1.24	1.21	1.30	1.20	1.17	1.13	1.27	1.25	1.30	1.21	1.22	
LAGOON DISCHARGE	ND	ND	ND	ND	126.70	ND	ND	ND	ND	ND	ND	ND	126.70	
BOD5														
INFLUENT (MG/L)	208.0	179.0	285.0	292.0	91.0	146.0	103.0	141.0	388.0	133.0	176.0	225.0	197.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	8.3	ND	ND	ND	ND	2.8	ND	ND	5.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	10.79	ND	ND	ND	ND	3.50	ND	ND	6.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	590.0	194.0	1,885.0	1,208.0	80.0	232.0	103.0	124.0	94.0	101.0	110.0	71.0	399.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	15.6	ND	ND	ND	ND	30.0	ND	ND	22.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	20.28	ND	ND	ND	ND	37.50	ND	ND	27.82	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.5	8.0	25.0	15.6	6.7	8.9	7.4	8.0	9.7	7.8	8.0	10.7	10.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.3	ND	ND	ND	ND	4.5	ND	ND	3.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.62	ND	ND	4.15	
LOADING (KG/D)	ND	ND	ND	ND	2.99	ND	ND	ND	ND	ND	ND	ND	ND	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CLINTON
 PLANT : CLINTON WPCP
 WORKS NUMBER : 120000925
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT FILTRATION
 DESIGN CAPACITY : 1.61 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : HURON
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : BAYFIELD RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.20	1.76	2.00	2.65	1.69	1.50	0.99	1.00	1.04	1.21	1.80	1.60	1.62	
BOD5														
INFLUENT (MG/L)	79.0	84.0	78.0	60.0	106.0	143.0	141.0	127.0	125.0	137.0	93.0	111.0	107.0	
EFFLUENT (MG/L)	7.0	4.0	5.6	6.8	4.7	1.5	5.4	0.7	2.3	0.9	3.1	2.6	3.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.40	7.04	1.20	18.02	7.94	2.25	5.34	0.70	2.39	1.08	5.58	4.16	5.99	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	101.0	80.0	46.0	93.0	219.0	118.0	146.0	130.0	187.0	82.0	71.0	113.2	
EFFLUENT (MG/L)	5.0	3.5	3.8	9.6	6.1	3.2	3.5	0.3	3.2	2.0	2.6	2.1	3.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.00	6.16	7.60	25.44	10.30	4.80	3.46	0.30	3.32	2.42	4.68	3.36	5.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	5.0	4.2	2.7	3.9	6.1	6.9	6.2	6.9	6.9	5.1	4.6	5.2	
EFFLUENT (MG/L)	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.8	0.5	0.3	0.4	0.4	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.32	0.88	1.20	1.59	1.18	0.90	0.59	0.80	0.52	0.36	0.72	0.64	0.97	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: COLCHESTER SOUTH
: COLCHESTER SOUTH TWP (OP APRIL 89)
: 110002595
: AERATED LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: 1.81 (1000 M3)

DESIGN CAPACITY

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,058

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	1.16	0.91	0.90	0.71	0.62	0.45	0.79	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	36.05	28.31	26.97	21.87	18.55	13.98	24.29	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	14.0	43.0	5.0	100.0	94.0	76.0	55.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	0.1	1.2	1.2	1.0	1.4	2.0	1.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	0.11	1.09	1.08	0.71	0.86	0.90	0.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	32.0	167.0	4.0	73.0	207.0	75.0	93.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	3.7	0.6	2.0	2.6	1.5	2.8	2.2	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	4.29	0.54	1.80	1.84	0.93	1.26	1.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	1.3	2.1	0.4	2.7	4.7	3.5	2.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND				0.07		0.04		

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: COLLINGWOOD TWP
: CRAIGLEIGH WPCP
: 120001951
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION
: 4.07 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.01	0.91	1.13	0.82	0.84	1.00	1.00	1.03	0.80	0.81	0.90	1.06	0.94	
BOD5														
INFLUENT (MG/L)	19.0	58.0	44.0	65.0	18.0	48.0	24.0	ND	11.0	206.0	16.0	16.0	47.7	
EFFLUENT (MG/L)	1.0	0.7	1.9	1.2	2.0	1.4	0.7	ND	1.6	1.1	1.2	1.1	1.3	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	1.01	0.63	2.14	0.98	1.68	1.40	0.70	ND	1.28	0.89	1.08	1.16	1.22	
LOADING LIMIT (KG/D)													61.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.0	71.0	59.0	46.0	65.0	42.0	64.0	105.0	43.0	124.0	65.0	146.0	74.6	
EFFLUENT (MG/L)	2.2	4.3	1.9	0.5	1.8	0.5	1.3	3.3	2.5	0.6	0.8	1.0	1.7	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	2.22	3.91	2.14	0.41	1.51	0.50	1.30	3.39	2.00	0.48	0.72	1.06	1.60	
LOADING LIMIT (KG/D)													61.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.0	2.9	2.3	1.7	1.6	2.3	2.1	2.6	2.8	4.6	1.8	3.1	2.5	
EFFLUENT (MG/L)	0.3	0.3	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	0.30	0.27	0.11	0.16	0.16	0.20	0.30	0.30	0.24	0.24	0.18	0.31	0.28	
LOADING LIMIT (KG/D)													1.22	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH	
PARAM	CRITERIA	LOADING	CONC
BOD	15.0 MG/L	61.20 KG/D	YES
SS	15.0 MG/L	61.20 KG/D	YES
TP	0.3 MG/L	1.22 KG/D	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: COLLINGWOOD TWP	REGION	: SOUTHWEST
PLANT	: CRAIGLEIGH WPCP	DISTRICT	: GREY
WORKS NUMBER	: 120001951	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: GEORGIAN BAY
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	: EFFLUENT FILTRATION	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 4.07 (1000 M3)	POPULATION SERVED	: 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.01	0.91	1.13	0.82	0.84	1.00	1.00	1.03	0.80	0.81	0.90	1.06	0.94	
BOD5														
INFLUENT (MG/L)	19.0	58.0	44.0	65.0	18.0	48.0	24.0	ND	11.0	206.0	16.0	16.0	47.7	
EFFLUENT (MG/L)	1.0	0.7	1.9	1.2	2.0	1.4	0.7	ND	1.6	1.1	1.2	1.1	1.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.01	0.63	2.14	0.98	1.68	1.40	0.70	ND	1.28	0.89	1.08	1.16	1.22	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.0	71.0	59.0	46.0	65.0	42.0	64.0	105.0	43.0	124.0	65.0	146.0	74.6	
EFFLUENT (MG/L)	2.2	4.3	1.9	0.5	1.8	0.5	1.3	3.3	2.5	0.6	0.8	1.0	1.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.22	3.91	2.14	0.41	1.51	0.50	1.30	3.39	2.00	0.48	0.72	1.06	1.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.0	2.9	2.3	1.7	1.6	2.3	2.1	2.6	2.8	4.6	1.8	3.1	2.5	
EFFLUENT (MG/L)	0.3	0.3	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)	0.30	0.27	0.11	0.16	0.16	0.20	0.30	0.30	0.24	0.24	0.18	0.31	0.28	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED ANNUALLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

REGION	: SOUTHWEST
DISTRICT	: KENT
OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
WATERCOURSE	: LAKE ST. CLAIR
MINOR BASIN	: ERIE
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 378

MUNICIPALITY	: DOVER
PLANT	: MITCHELL'S BAY LAGOON
WORKS NUMBER	: 110002087
TREATMENT	: CONVENTIONAL LAGOON SEASONAL
	: PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY	: 0.50 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.10 ND	0.10 ND	0.10 ND	0.14 ND	0.14 ND	0.20 ND	0.18 ND	0.15 ND	0.15 ND	0.14 6.19	0.41 ND	0.11 ND	0.16 6.19	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	205.0 ND ND ND	94.0 ND ND ND	160.0 ND ND ND	59.0 ND ND ND	110.0 ND ND ND	59.0 ND ND ND	96.0 ND ND ND	65.0 ND ND ND	ND ND ND ND	14.0 4.0 ND 0.56	84.0 ND ND ND	ND ND ND ND	94.6 4.0 25.0 0.64	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	168.0 ND ND ND	85.0 ND ND ND	193.0 ND ND ND	89.0 ND ND ND	86.0 ND ND ND	80.0 ND ND ND	130.0 ND ND ND	144.0 ND ND ND	ND ND ND ND	59.0 100.3 ND 14.04	65.0 ND ND ND	ND ND ND ND	109.9 100.3* 25.0 16.05	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	6.5 ND 1.0 ND	6.2 ND 1.0 ND	11.3 ND 1.0 ND	ND ND 1.0 ND	4.1 ND 1.0 ND	5.8 ND 1.0 ND	6.8 ND 1.0 ND	2.8 ND 1.0 ND	ND ND 1.0 ND	0.9 0.2 1.0 0.02	3.5 ND 1.0 ND	ND ND 1.0 ND	5.3 0.2 ND 0.03	

<u>PARAM</u>	<u>CRITERIA</u>	<u>COMPLIES WITH CONC</u>
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 - EXCEEDS EFFLUENT CRITERIA
 - SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

<u>START DATE</u>	<u>END DATE</u>	<u>ANTICIPATED COMPLIANCE</u>
1988/02	1990/01	1990/04

REMEDIAL MEASURES

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DRESDEN
 PLANT : DRESDEN WPCP
 WORKS NUMBER : 110002014
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 4.54 (1000 M3)
 :
 REGION : SOUTHWEST
 DISTRICT : KENT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SYDENHAM RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,568

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.64	1.73	1.46	1.55	1.40	1.66	1.41	1.55	2.02	1.56	1.92	2.16	1.67	
BOD5														
INFLUENT (MG/L)	147.0	162.0	90.0	152.0	122.0	69.0	116.0	57.0	35.0	69.0	153.0	64.0	103.0	
EFFLUENT (MG/L)	5.1	8.5	10.2	9.2	15.6	14.1	3.6	23.2	11.7	6.0	9.2	7.8	10.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.36	14.70	14.89	14.26	21.84	23.40	5.07	35.96	23.63	9.36	17.66	16.84	17.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	287.0	111.0	188.0	261.0	337.0	315.0	136.0	125.0	42.0	350.0	144.0	136.0	202.7	
EFFLUENT (MG/L)	17.0	13.3	21.1	21.1	19.8	20.7	12.7	26.8	13.4	19.2	17.4	12.3	17.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	27.88	23.00	30.80	32.70	27.72	34.36	17.90	41.54	27.06	29.95	33.40	26.56	29.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	2.9	1.1	1.5	4.4	2.9	2.9	3.0	2.8	7.7	3.4	2.8	3.3	
EFFLUENT (MG/L)	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.6	0.8	0.6	1.2*	0.2	0.5	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.49	0.51	0.29	0.31	0.42	0.66	0.42	0.93	1.61	0.93	2.30	0.43	0.84	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

COMPLIES
 WITH CONC
 YES
 YES
 YES
 NO

REMEDIAL MEASURES

COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS
 SLUDGE DISPOSAL/REMOVAL - UPGRADING WASTE DISPOSAL SITE

START DATE 1988
 END DATE 1988
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUNDALK
PLANT : DUNDALK LAGOON
WORKS NUMBER : 110001471
TREATMENT : AERATED CELL PLUS LAGOON
: SUMMER STORAGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 1.05 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FOLEY DRAIN TO GRAND R.
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.92	0.79	1.26	1.35	0.97	0.98	0.65	0.62	0.63	0.73	1.07	0.80	0.90	
LAGOON DISCHARGE	80.02	29.21	37.20	57.68	ND	ND	ND	ND	ND	ND	9.76	61.88	45.96	
BOD5 INFLUENT (MG/L)	74.0	163.0	138.0	44.0	40.0	39.0	40.0	48.0	56.0	68.0	73.0	75.0	71.5	
EFFLUENT (MG/L)	2.2	4.0	11.2	16.5	ND	ND	ND	ND	ND	ND	2.2	2.0	6.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	2.02	3.16	14.11	22.27	ND	ND	ND	ND	ND	ND	2.35	1.60	5.76	
SUSPENDED SOLIDS INFLUENT (MG/L)	91.0	189.0	218.0	47.0	31.0	52.0	47.0	108.0	140.0	147.0	153.0	112.0	111.3	
EFFLUENT (MG/L)	6.9	8.7	15.8	25.2	ND	ND	ND	ND	ND	ND	9.3	4.5	11.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	6.34	6.87	19.90	34.02	ND	ND	ND	ND	ND	ND	9.95	3.60	10.53	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	3.5	8.5	10.9	3.1	2.7	3.8	2.9	4.3	4.6	4.9	4.8	7.4	5.1	
EFFLUENT (MG/L)	0.4	0.2	0.7	0.6	ND	ND	ND	ND	ND	ND	0.3	0.7	0.5	
CONCENTRATION LIMIT (MG/L)													0.5	
LOADING (KG/D)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.45	
	0.36	0.15	0.88	0.81	ND	ND	ND	ND	ND	ND	0.32	0.56		

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DURHAM
 PLANT : DURHAM MUN WPCP
 WORKS NUMBER : 110000999
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 2.18 (1000 M3)
 REGION : SOUTHWEST
 DISTRICT : GREY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SAUGEEN RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,532

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.93	0.87	0.99	1.15	0.99	0.96	0.83	0.80	0.79	0.83	0.79	1.00	0.91	
BOD5														
INFLUENT (MG/L)	161.0	153.0	194.0	192.0	195.0	193.0	227.0	154.0	ND	218.0	132.0	135.0	177.6	
EFFLUENT (MG/L)	4.4	3.2	3.8	4.0	0.9	2.3	1.6	1.3	ND	0.9	ND	2.6	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.09	2.78	3.76	4.60	0.89	2.20	1.32	1.04	ND	0.74	ND	2.60	2.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	532.0	514.0	595.0	773.0	501.0	1,025.0	812.0	450.0	ND	710.0	536.0	408.0	623.3	
EFFLUENT (MG/L)	16.4	22.7	13.2	11.6	7.4	7.4	5.0	4.2	ND	7.9	ND	11.8	10.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.25	19.74	13.06	13.34	7.32	7.10	4.15	3.36	ND	6.55	ND	11.80	9.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	10.7	8.3	9.9	11.8	9.4	10.5	11.2	7.1	ND	13.6	10.6	6.7	10.0	
EFFLUENT (MG/L)	0.5	0.7	0.3	0.4	0.1	0.2	0.2	0.2	ND	0.3	ND	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.46	0.60	0.29	0.46	0.09	0.19	0.16	0.16	ND	0.24	ND	0.50	0.27	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUTTON LAGOON REGION : SOUTHWEST
 PLANT : DUTTON LAGOON DISTRICT : ELGIN
 WORKS NUMBER : 110001266 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : BENNETT CK. TO L. ERIE
 : PHOSPHORUS REMOVAL - BATCH MINOR BASIN : ERIE
 : : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 0.31 (1000 M3) POPULATION SERVED : 977

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.36	0.38	0.40	0.43	0.46	0.47	0.59	0.46	0.46	0.46	0.47	0.47	0.45	
LAGOON DISCHARGE	ND	ND	ND	42.41	ND	ND	ND	ND	ND	46.30	ND	ND	44.36	
BOD5														
INFLUENT (MG/L)	200.0	148.0	131.0	183.0	82.0	145.0	222.0	301.0	164.0	193.0	34.0	ND	163.9	
EFFLUENT (MG/L)	ND	ND	ND	15.5	ND	ND	ND	ND	ND	10.1	ND	ND	12.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	6.66	ND	ND	ND	ND	ND	4.64	ND	ND	5.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	135.0	131.0	107.0	116.0	41.0	168.0	140.0	136.0	181.0	334.0	24.0	ND	137.5	
EFFLUENT (MG/L)	ND	ND	ND	34.1	ND	ND	ND	ND	ND	39.2	ND	ND	36.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	14.66	ND	ND	ND	ND	ND	18.03	ND	ND	16.52	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.6	7.6	9.2	7.2	4.8	7.9	9.6	7.9	9.7	8.6	2.6	ND	7.6	
EFFLUENT (MG/L)	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.5	ND	ND	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.27	
	ND	ND	ND	0.30	ND	ND	ND	ND	ND	0.23	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	NO	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1991/12	1991/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST WILLIAMS
 PLANT : AILSA CRAIG WPCP
 WORKS NUMBER : 110002050
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 0.60 (1000 M3)
 :
 REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : AUSABLE RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 897

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.45	0.42	0.42	0.46	0.36	0.33	0.25	0.26	0.27	0.28	0.33	0.32	0.35	
BOD5 EFFLUENT (MG/L)	126.0	144.0	142.0	127.0	129.0	140.0	114.0	123.0	175.0	141.0	117.0	106.0	132.0	
CONCENTRATION LIMIT (MG/L)	4.6	3.4	5.8	7.1	2.0	3.0	2.0	2.4	2.4	2.4	4.5	1.8	3.5	
LOADING (KG/D)	2.07	1.42	2.43	3.26	0.72	0.99	0.50	0.62	0.64	0.67	1.48	0.57	25.0	
SUSPENDED SOLIDS EFFLUENT (MG/L)	196.0	220.0	158.0	121.0	151.0	190.0	137.0	136.0	227.0	138.0	89.0	167.0	160.8	
CONCENTRATION LIMIT (MG/L)	9.3	9.6	12.4	6.4	8.3	13.4	7.3	10.3	9.5	10.3	15.6	1.2	9.5	
LOADING (KG/D)	4.18	4.03	5.20	2.94	2.98	4.42	1.82	2.67	2.56	2.88	5.14	0.38	25.0	
TOTAL PHOSPHOROUS EFFLUENT (MG/L)	7.4	8.1	6.4	6.2	14.1	8.6	6.3	6.4	8.9	7.5	6.1	8.3	7.9	
CONCENTRATION LIMIT (MG/L)	0.4	0.4	0.6	0.5	0.4	0.6	1.0	1.4	0.8	0.7	0.7	0.7	0.7	1
LOADING (KG/D)	0.18	0.16	0.25	0.23	0.14	0.19	0.25	0.36	0.21	0.19	0.23	0.22	0.25	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

START DATE : 1988/07
 END DATE : 1989/09
 ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : EAST ZORRA-TAVISTOCK PLANT : TAVISTOCK LAGOON WORKS NUMBER : 110000720 TREATMENT : AERATED CELL PLUS LAGOON : SEASONAL DISCHARGE : PHOSPHORUS REMOVAL-CONTINUOUS DESIGN CAPACITY : 0.77 (1000 M3)	REGION : SOUTHWEST DISTRICT : OXFORD OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT WATERCOURSE : TRIBUTARY TO THAMES R. MINOR BASIN : ERIE MAJOR BASIN : GREAT LAKES POPULATION SERVED : 1,952
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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.02	0.91	0.96	1.14	0.91	1.13	0.83	0.81	0.76	0.85	0.94	0.90	0.93	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.80	23.80	
BOD5														
INFLUENT (MG/L)	ND	ND	233.0	156.0	188.0	206.0	398.0	378.0	259.0	327.0	330.0	160.0	263.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	4.8	
CONCENTRATION LIMIT (MG/L)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.32	4.46	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	105.0	82.0	126.0	187.0	227.0	172.0	155.0	203.0	196.0	106.0	155.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.5*	34.5	
CONCENTRATION LIMIT (MG/L)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.05	32.09	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	8.0	6.3	12.1	16.5	29.9	27.0	18.9	12.5	19.8	11.9	16.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18	0.19	
LOADING LIMIT (KG/D)														

NOTE:
 BOD - ASSESSED MONTHLY
 SS - ASSESSED MONTHLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			
PARAM	CRITERIA	LOADING	COMPLIES WITH CONC
BOD	25.0 MG/L	NA	YES
SS	25.0 MG/L	NA	NO
TP	1.0 MG/L	NA	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST ZORRA-TAVISTOCK
 PLANT : TAVISTOCK LAGOON
 WORKS NUMBER : 110000720
 TREATMENT : AERATED CELL PLUS LAGOON
 : SEASONAL DISCHARGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : 0.77 (1000 M3)
 DESIGN CAPACITY : 0.77 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : OXFORD
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : TRIBUTARY TO THAMES R.
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,952

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.02	0.91	0.96	1.14	0.91	1.13	0.83	0.81	0.76	0.85	0.94	0.90	0.93	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.80	
BOD5														
INFLUENT (MG/L)	ND	ND	233.0	156.0	188.0	206.0	398.0	378.0	259.0	327.0	330.0	160.0	263.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)													4.46	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	105.0	82.0	126.0	187.0	227.0	172.0	155.0	203.0	196.0	106.0	155.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)													32.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	8.0	6.3	12.1	16.5	29.9	27.0	18.9	12.5	19.8	11.9	16.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	YES	NO
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ENNISKILLEN
 PLANT : OIL CITY LAGOON
 WORKS NUMBER : 110001738
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.18 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BLACK CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 170

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.06	0.05	0.05	0.07	0.05	0.06	0.05	0.05	0.06	0.06	0.07	0.06	0.06	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	93.0	107.0	46.0	94.0	130.0	132.0	125.0	162.0	129.0	137.0	118.0	74.0	112.3	
EFFLUENT (MG/L)	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	0.24	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	70.0	89.0	43.0	53.0	75.0	83.0	76.0	84.0	61.0	110.0	63.0	37.0	70.3	
EFFLUENT (MG/L)	ND	ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	0.33	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	9.6	4.9	5.8	7.9	8.8	8.7	7.9	7.9	7.2	6.7	4.8	7.2	
EFFLUENT (MG/L)	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	0.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.01	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE : 1988/02
 END DATE : 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESSEX
 PLANT : ESSEX LAGOON N.E.
 WORKS NUMBER : 110000203
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 2.88 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : PUCE RIVER DRAIN
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,850

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.34	1.17	1.32	1.51	1.34	1.60	1.53	1.20	1.42	1.34	1.39	1.32	1.37	
LAGOON DISCHARGE	ND	ND	ND	261.14	ND	ND	ND	ND	ND	ND	289.45	ND	275.30	
BOD5														
INFLUENT (MG/L)	31.0	25.0	78.0	20.0	44.0	39.0	43.0	112.0	85.0	63.0	ND	50.0	53.6	
EFFLUENT (MG/L)	ND	ND	ND	10.9	ND	ND	ND	ND	ND	ND	8.5	ND	9.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	16.45	ND	ND	ND	ND	ND	ND	11.81	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	69.0	41.0	102.0	74.0	48.0	51.0	114.0	71.0	148.0	63.0	ND	46.0	75.2	
EFFLUENT (MG/L)	ND	ND	ND	23.8	ND	ND	ND	ND	ND	ND	19.2	ND	21.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	35.93	ND	ND	ND	ND	ND	ND	26.68	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	1.7	4.1	1.4	2.2	1.6	3.0	4.2	6.5	2.7	ND	3.4	3.0	
EFFLUENT (MG/L)	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	0.4	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.45	ND	ND	ND	ND	ND	ND	0.55	ND	0.55	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESSEX
 PLANT : ESSEX LAGOON S.W.
 WORKS NUMBER : 110000837
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.52 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CANARD RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,401

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.94 ND	0.89 ND	0.94 ND	1.11 116.76	1.07 ND	1.85 ND	2.02 ND	0.98 ND	1.05 ND	0.85 ND	1.01 74.86	0.79 ND	1.13 95.81	
BOD5														
INFLUENT (MG/L)	115.0	166.0	155.0	141.0	306.0	135.0	269.0	150.0	157.0	180.0	ND	168.0	176.5	
EFFLUENT (MG/L)	ND	ND	ND	18.8	ND	ND	ND	ND	ND	ND	10.0	ND	14.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	20.86	ND	ND	ND	ND	ND	ND	10.10	ND	16.27	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	169.0	154.0	125.0	235.0	269.0	344.0	101.0	200.0	187.0	ND	449.0	213.1	
EFFLUENT (MG/L)	ND	ND	ND	37.2	ND	ND	ND	ND	ND	ND	20.3	ND	28.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	41.29	ND	ND	ND	ND	ND	ND	20.50	ND	32.54	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	8.9	8.6	7.3	8.0	6.9	8.5	6.6	8.0	6.4	ND	6.7	7.5	
EFFLUENT (MG/L)	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	0.3	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	0.30	ND	0.45	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: EXETER	REGION	: SOUTHWEST
PLANT	: EXETER LAGOON	DISTRICT	: HURON
WORKS NUMBER	: 110000221	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: AERATED LAGOON	WATERCOURSE	: AUSABLE RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	: SUMMER STORAGE	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 3.39 (1000 M3)	POPULATION SERVED	: 3,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.59	1.87	2.81	2.86	1.99	1.93	2.40	3.23	3.58	1.64	2.69	1.61	2.43	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	117.0	139.0	84.0	82.0	138.0	67.6	51.0	35.0	96.0	97.0	145.0	288.0	111.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.33	ND	13.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	201.0	185.0	111.0	76.0	151.0	47.6	51.0	63.0	119.0	121.0	85.0	ND	110.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	1.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.95	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.95	ND	2.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	5.7	5.4	4.0	6.1	4.0	3.6	3.6	5.1	3.2	4.5	14.2	5.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.42	ND	2.19	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	FOREST	
PLANT	:	FOREST LAGOON	
WORKS NUMBER	:	110001346	
TREATMENT	:	CONVENTIONAL LAGOON	SEASONAL
	:		
	:		
DESIGN CAPACITY	:		1.36 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
COOPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : HICKORY CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,530

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	1.22 ND	1.17 ND	1.27 ND	1.26 ND	1.23 156.00	1.18 ND	1.13 ND	1.09 ND	1.10 ND	1.11 88.26	1.20 ND	1.10 ND	1.17 122.13	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	208.0 ND	139.0 ND	114.0 ND	115.0 ND	324.0 15.3	110.0 ND	262.0 ND	118.0 ND	25.0 ND	208.0 13.6	764.0 ND	366.0 ND	229.4 14.5 30.0 16.97	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	341.0 ND	178.0 ND	168.0 ND	197.0 ND	508.0 24.5	125.0 ND	341.0 ND	366.0 ND	982.0 ND	231.0 124.9	534.0 ND	454.0 ND	368.8 74.7* 40.0 87.40	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	10.9 ND	5.1 ND	5.9 ND	4.3 ND	11.7 0.5	6.2 ND	9.3 ND	4.8 ND	8.7 ND	6.6 1.0	12.2 ND	8.4 ND	7.8 0.8 0.94	

BOD - ASSESSED ANNUALLY
 SSS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES
 ND - NO DATA
 NA - NOT APPLICABLE

<u>START DATE</u>	<u>END DATE</u>	<u>ANTICIPATED COMPLIANCE</u>
1988/01	1990/01	1990/04

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

C-40

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GLENCOE
 PLANT : GLENCOE LAGOON
 WORKS NUMBER : 110001845
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.94 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : NEWBIGGEN CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.76	0.56	0.65	0.89	0.67	0.88	0.53	0.61	0.72	0.67	0.81	0.64	0.70	
LAGOON DISCHARGE	ND	ND	ND	20.25	ND	ND	ND	ND	ND	27.00	ND	ND	23.63	
BOD5														
INFLUENT (MG/L)	133.0	144.0	147.0	119.0	164.0	117.0	138.0	153.0	137.0	134.0	151.0	150.0	140.6	
EFFLUENT (MG/L)	ND	ND	ND	9.9	27.8	ND	ND	ND	ND	14.1	ND	ND	17.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	8.81	18.62	ND	ND	ND	ND	9.44	ND	ND	12.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	102.0	125.0	114.0	338.0	111.0	126.0	98.0	133.0	106.0	103.0	84.0	62.0	125.2	
EFFLUENT (MG/L)	ND	ND	ND	36.1	58.8	ND	ND	ND	ND	15.8	ND	ND	36.9*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	32.12	39.39	ND	ND	ND	ND	10.58	ND	ND	25.63	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.1	7.9	6.7	6.0	6.4	6.4	6.4	4.8	7.4	7.0	6.4	7.5	6.8	
EFFLUENT (MG/L)	ND	ND	ND	0.6	1.4*	ND	ND	ND	ND	0.9	ND	ND	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.53	0.93	ND	ND	ND	ND	0.60	ND	ND	0.70	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GODERICH
 PLANT : GODERICH WPCP
 WORKS NUMBER : 120000943
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 9.09 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : HURON
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE HURON
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 7,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.70	6.10	6.80	8.00	7.00	7.20	6.70	7.70	6.60	7.20	8.10	6.70	7.15	
BOD5														
INFLUENT (MG/L)	242.0	132.0	177.0	146.0	243.0	143.0	140.0	149.0	102.0	184.0	177.0	145.0	165.0	
EFFLUENT (MG/L)	4.5	5.1	5.2	6.3	4.7	5.8	2.9	2.6	3.5	9.3	5.3	5.2	5.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	34.65	31.11	35.36	50.40	32.90	41.76	19.43	20.02	23.10	66.96	42.93	34.84	35.75	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	532.0	369.0	554.0	387.0	328.0	314.0	144.0	369.0	306.0	241.0	260.0	294.0	341.5	
EFFLUENT (MG/L)	5.5	7.4	18.9	19.1	11.4	7.8	7.6	8.9	7.2	14.8	16.5	15.7	11.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.35	45.14	128.52	152.80	79.80	56.16	50.92	68.53	47.52	106.56	133.65	105.19	83.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	11.9	7.0	6.0	8.1	6.2	4.8	6.3	6.7	6.4	6.1	8.0	7.1	
EFFLUENT (MG/L)	0.5	0.7	1.2*	0.9	0.6	0.4	0.3	0.4	0.4	0.9	0.7	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.85	4.27	8.16	7.20	4.20	2.88	2.01	3.08	2.64	6.48	5.67	4.02	4.29	
														1

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
 OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED

START DATE END DATE COMPLIANCE
 ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GOSFIELD NORTH
 PLANT : COTTAM LAGOON
 WORKS NUMBER : 110002005
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.67 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MADDOX DRAIN TO BELLE R.
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 978

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.33	0.30	0.31	0.36	0.31	0.36	0.42	0.30	0.33	0.30	0.32	0.31	0.33	
LAGOON DISCHARGE	ND	ND	ND	64.86	ND	ND	ND	ND	ND	ND	41.19	ND	53.03	
BOD5	93.0	89.0	129.0	78.0	110.0	90.0	62.0	146.0	104.0	256.0	ND	150.0	118.8	
INFLUENT (MG/L)	ND	ND	ND	17.7	ND	ND	ND	ND	ND	ND	15.1	ND	16.4	
EFFLUENT (MG/L)	ND	ND	ND	6.37	ND	ND	ND	ND	ND	ND	4.83	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	6.37	ND	ND	ND	ND	ND	ND	4.83	ND	5.41	
LOADING (KG/D)														
SUSPENDED SOLIDS	84.0	94.0	132.0	76.0	88.0	141.0	68.0	101.0	93.0	82.0	ND	135.0	99.5	
INFLUENT (MG/L)	ND	ND	ND	40.3	ND	ND	ND	ND	ND	ND	110.3	ND	75.3M	
EFFLUENT (MG/L)	ND	ND	ND	14.50	ND	ND	ND	ND	ND	ND	35.29	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	14.50	ND	ND	ND	ND	ND	ND	35.29	ND	24.85	
LOADING (KG/D)														
TOTAL PHOSPHOROUS	9.7	7.0	8.7	5.2	5.9	7.5	5.6	4.6	6.9	5.9	ND	8.2	6.8	
INFLUENT (MG/L)	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	0.8	ND	0.7	
EFFLUENT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	0.25	ND	0.23	
LOADING (KG/D)														

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	NO
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 COMPLIANCE 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: HANOVER	REGION	: SOUTHWEST
PLANT	: HANOVER WPCP	DISTRICT	: GREY
WORKS NUMBER	: 120001461	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: SAUGEEN RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 6.36 (1000 M3)	POPULATION SERVED	: 6,389

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.88	3.88	5.08	4.47	4.02	4.13	3.32	3.56	3.36	3.59	4.52	4.00	3.98	
BOD5														
INFLUENT (MG/L)	202.0	254.0	168.0	186.0	165.0	197.0	92.0	262.0	222.0	340.0	329.0	179.0	216.3	
EFFLUENT (MG/L)	ND	7.7	7.7	7.5	7.0	2.0	1.1	1.9	2.6	2.7	4.5	2.9	4.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	29.87	39.11	33.52	28.14	8.26	3.65	6.76	8.73	9.69	20.34	11.60	17.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	393.0	186.0	173.0	100.0	132.0	217.0	116.0	225.0	157.0	284.0	515.0	92.0	215.8	
EFFLUENT (MG/L)	ND	6.8	10.6	5.6	8.6	4.6	4.1	5.9	5.5	3.3	7.0	10.7	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	26.38	53.84	25.03	34.57	18.99	13.61	21.00	18.48	11.84	31.64	42.80	26.27	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.6	7.8	6.9	4.8	6.4	9.0	5.2	6.7	7.9	7.8	19.2	5.8	8.5	
EFFLUENT (MG/L)	0.3	0.5	0.4	0.3	0.6	0.6	0.4	0.7	0.7	0.4	0.5	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.16	1.94	2.03	1.34	2.41	2.47	1.32	2.49	2.35	1.43	2.26	2.00	1.99	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HARROW
 PLANT : HARROW LAGOON
 WORKS NUMBER : 110002103
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.52 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CEDAR CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,415

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.31	1.19	1.23	1.37	1.42	1.72	2.42	1.25	1.32	1.17	1.35	1.40	1.43	
LAGOON DISCHARGE	ND	ND	ND	ND	174.92	ND	104.40	89.85	ND	ND	154.79	ND	130.99	
BOD5														
INFLUENT (MG/L)	89.0	132.0	152.0	87.0	212.0	108.0	112.0	92.0	121.0	56.0	162.0	144.0	122.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	12.1	ND	2.6	10.6	ND	ND	11.5	ND	9.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	17.18	ND	6.29	13.25	ND	ND	15.52	ND	13.16	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	87.0	208.0	206.0	87.0	552.0	126.0	120.0	96.0	144.0	63.0	70.0	409.0	180.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	15.4	ND	11.1	23.2	ND	ND	29.4	ND	19.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	21.86	ND	26.86	29.00	ND	ND	39.69	ND	28.51	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	7.3	7.8	4.5	8.8	4.8	6.4	4.4	6.9	3.7	6.3	6.2	6.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.3	ND	0.5	0.8	ND	ND	0.6	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.42	ND	1.21	1.00	ND	ND	0.81	ND	0.86	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/01
 END DATE 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HENSALL
PLANT : HENSALL LAGOON
WORKS NUMBER : 110000926
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK CK TO AUSABLE R.
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,155

DESIGN CAPACITY : 0.59 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.57	0.53	0.63	0.63	0.58	0.61	0.57	0.65	0.58	0.60	0.61	0.57	0.59	
LAGOON DISCHARGE	ND	ND	ND	119.95	61.17	ND	ND	ND	ND	40.96	ND	ND	74.03	
BOD5														
INFLUENT (MG/L)	120.0	252.0	96.0	125.0	ND	70.0	71.0	116.0	153.0	140.0	142.0	241.0	138.7	
EFFLUENT (MG/L)	ND	ND	ND	8.2	2.0	ND	ND	ND	ND	2.3	ND	ND	4.2	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	5.16	1.16	ND	ND	ND	ND	1.38	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	5.16	1.16	ND	ND	ND	ND	1.38	ND	ND	2.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	170.0	536.0	197.0	197.0	ND	122.0	98.0	111.0	278.0	176.0	183.0	198.0	206.0	
EFFLUENT (MG/L)	ND	ND	ND	18.3	4.3	ND	ND	ND	ND	3.9	ND	ND	8.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	11.52	2.49	ND	ND	ND	ND	2.34	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	11.52	2.49	ND	ND	ND	ND	2.34	ND	ND	5.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	9.8	5.7	6.7	ND	5.8	6.2	6.1	8.6	6.8	6.8	7.7	7.0	
EFFLUENT (MG/L)	ND	ND	ND	1.4	0.1	ND	ND	ND	ND	0.8	ND	ND	0.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	0.88	0.05	ND	ND	ND	ND	0.48	ND	ND	0.47	
LOADING (KG/D)	ND	ND	ND	0.88	0.05	ND	ND	ND	ND	0.48	ND	ND	0.47	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE : 1988/02

END DATE : 1990/01

ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : INGERSOLL
 PLANT : INGERSOLL NEW WPCP
 WORKS NUMBER : 110003969
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 6.81 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : OXFORD
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : THAMES RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.99	4.16	4.55	5.54	4.76	4.82	4.50	4.74	4.37	5.30	5.66	4.92	4.78	
BOD5														
INFLUENT (MG/L)	69.0	128.0	146.0	145.0	150.0	124.0	144.0	194.0	157.0	215.0	139.0	147.0	146.5	
EFFLUENT (MG/L)	5.6	12.4	9.0	34.1	9.9	7.5	4.1	4.6	2.7	9.8	19.3	17.8	11.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.34	51.58	40.95	188.91	47.12	36.15	18.45	21.80	11.79	51.94	109.23	87.57	54.49	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	134.0	139.0	290.0	133.0	128.0	93.0	169.0	210.0	168.0	235.0	161.0	135.0	166.3	
EFFLUENT (MG/L)	8.0	24.2	9.2	30.9	9.9	7.8	6.6	5.4	3.6	9.7	11.7	8.7	11.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	31.92	100.67	41.86	171.18	47.12	37.59	29.70	25.59	15.73	51.41	66.22	42.80	54.01	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	6.6	11.9	8.4	5.2	6.2	4.7	6.3	6.0	7.9	6.9	6.9	6.8	
EFFLUENT (MG/L)	0.3	1.2*	0.5	2.5*	1.1*	0.8	1.4*	2.7*	1.3*	1.9*	0.8	1.7*	1.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.19	4.99	2.27	13.85	5.23	3.85	6.50	12.79	5.68	10.07	4.52	8.36	6.69	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW
 SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988/04	1990/01	1990/01
1988	1990/12	1990/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : INGERSOLL
 PLANT : INGERSOLL OLD WPCP
 WORKS NUMBER : 110003978
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 3.41 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : OXFORD
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : THAMES RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.33	1.23	1.35	1.15	1.17	1.79	1.67	1.78	1.65	1.03	1.08	1.82	1.42	
BOD5														
INFLUENT (MG/L)	69.0	128.0	146.0	145.0	150.0	124.0	144.0	194.0	157.0	215.0	139.0	147.0	146.5	
EFFLUENT (MG/L)	8.2	15.9	10.5	7.8	32.9	6.9	3.0	4.4	4.7	3.7	3.2	11.6	9.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.90	19.55	14.17	8.97	38.49	12.35	5.01	7.83	7.75	3.81	3.45	21.11	13.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	134.0	139.0	290.0	133.0	128.0	93.0	169.0	210.0	168.0	235.0	161.0	135.0	166.3	
EFFLUENT (MG/L)	14.9	14.6	17.5	12.6	33.5	9.1	16.0	7.4	10.3	9.7	5.6	10.3	13.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	19.81	17.95	23.62	14.49	39.19	16.28	26.72	13.17	16.99	9.99	6.04	18.74	19.17	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	6.6	11.9	8.4	5.2	6.2	4.7	6.3	6.0	7.9	6.9	6.9	6.8	
EFFLUENT (MG/L)	0.5	1.2*	1.0	2.0*	2.4*	1.1*	1.4*	2.3*	1.4*	2.6*	1.2*	1.1*	1.5	10
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.66	1.47	1.35	2.30	2.80	1.96	2.33	4.09	2.31	2.67	1.29	2.00	2.13	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW
 SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988/04	1992/12	1990/01
1988		1990/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: KINCARDINE	REGION	: SOUTHWEST
PLANT	: KINCARDINE LAGOON	DISTRICT	: BRUCE
WORKS NUMBER	: 110000864	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: AERATED CELL PLUS LAGOON	WATERCOURSE	: LAKE HURON
	: CONTINUOUS DISCHARGE	MINOR BASIN	: HURON
	: PHOSPHORUS REMOVAL-CONTINUOUS	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 5.91 (1000 M3)	POPULATION SERVED	: 7,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.48	2.12	2.64	2.73	2.38	2.32	2.04	2.08	1.89	1.89	2.34	2.10	2.25	
LAGOON DISCHARGE	77.00	59.48	81.83	81.88	73.73	69.55	63.32	64.34	42.59	54.77	70.32	65.01	66.99	
BOD5														
INFLUENT (MG/L)	94.0	79.0	57.0	59.0	83.0	89.0	120.0	122.0	182.0	114.0	85.0	118.0	100.2	
EFFLUENT (MG/L)	5.9	6.4	12.1	16.4	10.5	3.0	4.0	8.6	4.9	1.3	1.6	4.2	6.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	14.63	13.56	31.94	44.77	24.99	6.96	8.16	17.88	9.26	2.45	3.74	8.82	14.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	121.0	103.0	42.0	45.0	70.0	66.0	134.0	123.0	144.0	132.0	96.0	79.0	96.3	
EFFLUENT (MG/L)	3.3	4.1	8.6	15.5	11.0	2.7	4.6	9.1	9.0	2.8	3.7	4.9	6.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	8.18	8.69	22.70	42.31	26.18	6.26	9.38	18.92	17.01	5.29	8.65	10.29	14.85	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	5.6	3.9	4.0	5.1	4.6	6.7	6.4	11.7	7.7	5.6	7.9	6.3	
EFFLUENT (MG/L)	1.1*	1.1*	0.8	0.6	1.2*	3.0*	2.3*	3.1*	3.5*	1.0	0.8	0.7	1.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.72	2.33	2.11	1.63	2.85	6.96	4.69	6.44	6.61	1.89	1.87	1.47	3.60	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

START DATE END DATE ANTICIPATED COMPLIANCE

1989/01 1990/12 1990/01

FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : KINGSVILLE
 PLANT : KINGSVILLE LAGOON
 WORKS NUMBER : 120001078
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 :
 DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WIGLE CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.09	2.91	3.13	3.75	3.72	5.35	4.48	4.07	4.06	3.27	3.56	2.51	3.74	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING LIMIT (KG/D)														

NOTE:
 BOD - ASSESSED MONTHLY
 SS - ASSESSED MONTHLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH	
PARAM	CRITERIA	LOADING	CONC
BOD	25.0 MG/L	NA	INSUFFICIENT DATA
SS	30.0 MG/L	NA	INSUFFICIENT DATA
TP	1.0 MG/L	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KINGSVILLE
 PLANT : KINGSVILLE LAGOON
 WORKS NUMBER : 120001078
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 :
 DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WIGLE CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.09	2.91	3.13	3.75	3.72	5.35	4.48	4.07	4.06	3.27	3.56	2.51	3.74	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LEAMINGTON : LEAMINGTON WPCP : SOUTHWEST
 PLANT : LEAMINGTON WPCP : DISTRICT : ESSEX
 WORKS NUMBER : 120001069 : OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : EXTENDED AERATION : WATERCOURSE : LAKE ERIE
 : PHOSPHORUS REMOVAL-CONTINUOUS : MINOR BASIN : ERIE
 : : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 19.09 (1000 M3) : POPULATION SERVED : 12,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.72	21.46	15.15	20.63	21.26	25.22	18.99	27.83	37.19	19.36	16.74	13.64	21.27	
BOD5 INFLUENT (MG/L)	180.0	237.0	205.0	172.0	293.0	75.0	172.0	158.0	354.0	540.0	224.0	247.0	238.1	
EFFLUENT (MG/L)	3.5	0.6	4.1	3.5	5.0	9.0	2.3	4.4	8.2	5.1	3.7	3.5	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	62.02	12.87	62.11	72.20	106.30	226.98	43.67	122.45	304.95	98.73	61.93	47.74	93.59	
SUSPENDED SOLIDS INFLUENT (MG/L)	144.0	243.0	155.0	188.0	263.0	80.0	158.0	179.0	881.0	1,003.0	180.0	282.0	313.0	
EFFLUENT (MG/L)	13.4	5.2	10.5	8.8	13.9	17.0	9.2	10.2	18.3	17.3	10.0	11.8	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	237.44	111.59	159.07	181.54	295.51	428.74	174.70	283.86	680.57	334.92	167.40	160.95	257.37	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	1.5	1.7	3.3	6.5	4.0	4.0	3.7	3.8	4.8	6.3	3.7	3.7	3.9	
EFFLUENT (MG/L)	0.2	0.3	0.6	1.1*	1.0	1.0	0.5	0.7	0.8	0.7	0.4	0.5	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.54	6.43	9.09	22.69	21.26	25.22	9.49	19.48	29.75	13.55	6.69	6.82	14.89	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	25.0 MG/L	YES
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LISTOWEL REGION : SOUTHWEST
 PLANT : LISTOWEL LAGOON CONT DIS (SUMMER SPRAY) DISTRICT : PERTH
 WORKS NUMBER : 110000409 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : CHAPMAN DRAIN
 : LAGOON AND SPRAY MINOR BASIN : HURON
 : PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
 : 4.91 (1000 M3) POPULATION SERVED : 4,554

DESIGN CAPACITY : 4.91 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.37	3.90	6.49	6.76	5.12	5.16	3.36	3.35	3.57	3.79	5.69	4.05	4.55	
LAGOON DISCHARGE	20.91	ND	286.31	443.24	ND	ND	ND	ND	ND	ND	337.68	340.03	285.63	
BOD5														
INFLUENT (MG/L)	324.0	345.0	256.0	342.0	205.0	643.0	258.0	275.0	287.0	351.0	184.0	205.0	306.3	
EFFLUENT (MG/L)	33.3	ND	34.1	26.1	ND	ND	ND	ND	ND	ND	14.9	26.6	27.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	112.22	ND	221.30	176.43	ND	ND	ND	ND	ND	ND	84.78	107.73	122.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	243.0	306.0	169.0	293.0	120.0	635.0	147.0	324.0	444.0	284.0	220.0	176.0	280.1	
EFFLUENT (MG/L)	41.9	ND	44.2	32.1	ND	ND	ND	ND	ND	ND	17.1	28.0	32.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	141.20	ND	286.85	216.99	ND	ND	ND	ND	ND	ND	97.29	113.40	148.79	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.0	2.8	4.3	4.0	4.7	5.4	4.6	4.6	4.9	3.5	4.0	4.2	
EFFLUENT (MG/L)	1.2*	ND	1.4*	1.1*	ND	ND	ND	ND	ND	ND	0.6	0.9	1.0	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	4.04	ND	9.08	7.43	ND	ND	ND	ND	ND	ND	3.41	3.64	4.55	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES :
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE : 1989
 END DATE : 1992/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LOBO
 PLANT : KILWORTH HEIGHTS WPCP
 WORKS NUMBER : 110003362
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL - CONTINUOUS
 :
 DESIGN CAPACITY : 0.26 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : THAMES RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.10	0.10	0.09	0.13	0.11	0.11	0.12	0.12	0.11	0.12	0.13	0.12	0.11	
BOD5														
INFLUENT (MG/L)	59.0	77.0	124.0	36.0	89.0	93.0	55.0	74.0	112.0	125.0	87.0	160.0	90.9	
EFFLUENT (MG/L)	3.1	0.8	6.1	7.2	7.6	13.4	6.7	8.0	9.3	6.6	8.1	10.6	7.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.31	0.08	0.54	0.93	0.83	1.47	0.80	0.96	1.02	0.79	1.05	1.27	0.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	198.0	144.0	301.0	85.0	186.0	210.0	116.0	176.0	258.0	229.0	137.0	149.0	182.4	
EFFLUENT (MG/L)	1.9	1.6	3.9	3.7	17.0	6.7	4.2	3.4	3.4	5.0	2.9	5.8	5.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.19	0.16	0.35	0.48	1.87	0.73	0.50	0.40	0.37	0.60	0.37	0.69	0.55	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	11.6	8.8	1.9	5.2	4.5	5.2	4.0	6.5	6.1	4.9	5.8	5.7	
EFFLUENT (MG/L)	0.2	0.1	0.2	0.2	0.7	0.5	0.4	0.5	0.7	0.5	0.5	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.02	0.01	0.01	0.02	0.07	0.05	0.04	0.06	0.07	0.06	0.06	0.03	0.04	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

START DATE 1990/01
 END DATE 1992/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: LONDON	REGION	: SOUTHWEST
PLANT	: ADELAIDE WPCP	DISTRICT	: MIDDLESEC
WORKS NUMBER	: 120000872	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: THAMES RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
DESIGN CAPACITY	: 18.18 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 35,678

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	21.91	20.34	21.11	23.82	22.49	25.62	22.01	22.32	22.66	19.16	21.16	22.32	22.08	
BOD5														
INFLUENT (MG/L)	233.0	170.0	144.0	151.0	132.0	131.0	197.0	106.0	159.0	197.0	104.0	180.0	158.7	
EFFLUENT (MG/L)	2.0	2.0	4.0	2.0	3.0	3.0	2.0	2.0	4.0	2.0	2.0	3.0	2.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	43.82	40.68	84.44	47.64	67.47	76.86	44.02	44.64	90.64	38.32	42.32	66.96	57.41	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	186.0	149.0	151.0	121.0	129.0	145.0	168.0	130.0	209.0	188.0	120.0	163.0	154.9	
EFFLUENT (MG/L)	7.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	7.0	7.0	5.0	7.0	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	153.37	101.70	105.55	119.10	112.45	128.10	132.06	133.92	158.62	134.12	105.80	156.24	128.06	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	5.3	4.8	6.0	5.8	5.0	6.7	5.8	6.0	7.8	5.6	5.8	5.9	
EFFLUENT (MG/L)	0.7	0.4	0.5	0.6	0.3	0.5	0.7	0.5	0.5	0.5	0.5	0.6	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	15.33	8.13	10.55	14.29	6.74	12.81	15.40	11.16	11.33	9.58	10.58	13.39	11.04	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY	
PARM	CRITERIA
30D	25.0 MG/L
SS	25.0 MG/L
TP	1.0 MG/L
	COMPLIES WITH CONC
	YES
	YES
	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON
 PLANT : GREENWAY WPCP
 WORKS NUMBER : 120000863
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 DESIGN CAPACITY : 124.33 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : THAMES RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 168,274

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	114.65	101.94	114.24	130.51	118.73	129.57	119.68	125.46	124.60	143.66	125.52	103.11	120.97	
BOD5 INFLUENT (MG/L)	306.0	243.0	213.0	255.0	270.0	252.0	334.0	373.0	408.0	387.0	152.0	398.0	299.3	
EFFLUENT (MG/L)	3.0	4.0	6.0	5.0	5.0	6.0	3.0	3.0	4.0	4.0	5.0	1.0	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	343.95	407.76	685.44	652.55	593.65	777.42	359.04	376.38	498.40	574.64	627.60	103.11	495.98	
SUSPENDED SOLIDS INFLUENT (MG/L)	185.0	169.0	166.0	191.0	235.0	241.0	253.0	201.0	294.0	263.0	160.0	163.0	210.1	
EFFLUENT (MG/L)	11.0	10.0	16.0	12.0	11.0	12.0	7.0	7.0	8.0	10.0	12.0	16.0	11.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1261.15	1019.40	1827.84	1566.12	1306.03	1554.84	837.76	878.22	996.80	1436.60	1506.24	1649.76	1330.67	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	7.0	6.9	5.3	7.0	8.5	7.1	8.7	8.4	8.8	10.1	6.5	6.0	7.5	
EFFLUENT (MG/L)	0.8	0.8	0.6	0.8	0.8	0.5	1.0	0.6	0.4	1.0	0.9	0.8	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	91.72	81.55	68.54	104.40	94.98	64.78	119.68	75.27	49.84	143.66	112.96	82.48	96.78	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON	REGION : SOUTHWEST
PLANT : OXFORD WPCP	DISTRICT : MIDDLESEC
WORKS NUMBER : 120000854	OPERATING AUTHORITY : MUNICIPAL
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE : THAMES RIVER
: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN : ERIE
:	MAJOR BASIN : GREAT LAKES
DESIGN CAPACITY : 5.45 (1000 M3)	POPULATION SERVED : 16,224

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.15	4.79	4.99	4.71	5.39	5.33	4.82	4.98	4.73	4.48	4.75	6.02	5.01	
BOD5														
INFLUENT (MG/L)	166.0	123.0	146.0	117.0	147.0	83.0	137.0	118.0	157.0	208.0	129.0	145.0	139.7	
EFFLUENT (MG/L)	2.0	7.0	6.0	3.0	5.0	3.0	3.0	5.0	4.0	3.0	3.0	4.0	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.30	33.53	29.94	14.13	26.95	15.99	14.46	24.90	18.92	13.44	14.25	24.08	20.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	166.0	147.0	141.0	110.0	163.0	115.0	155.0	144.0	164.0	169.0	105.0	132.0	142.6	
EFFLUENT (MG/L)	7.0	12.0	7.0	5.0	6.0	7.0	6.0	14.0	9.0	8.0	8.0	5.0	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	36.05	57.48	34.93	23.55	32.34	37.31	28.92	69.72	42.57	35.84	38.00	30.10	39.08	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.2	6.5	6.3	5.2	7.6	4.9	6.9	6.6	7.1	8.8	6.6	6.4	6.7	
EFFLUENT (MG/L)	0.7	0.5	0.3	0.9	0.5	0.6	ND	0.9	0.5	0.6	1.0	0.8	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.60	2.39	1.49	4.23	2.69	3.19	ND	4.48	2.36	2.68	4.75	4.81	3.51	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: LONDON
: POTTERSBURG WPCP
: 120000836
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 22.04 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 25,653

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	20.40	18.23	19.65	21.92	18.68	18.16	15.27	15.71	16.21	15.96	19.07	16.35	17.97	
BOD5 INFLUENT (MG/L)	197.0	152.0	135.0	164.0	191.0	154.0	210.0	214.0	187.0	239.0	155.0	205.0	183.6	
EFFLUENT (MG/L)	3.0	5.0	4.0	3.0	5.0	4.0	3.0	5.0	4.0	3.0	3.0	5.0	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	61.20	91.15	78.60	65.76	93.40	72.64	45.81	78.55	64.84	47.88	57.21	81.75	70.08	
SUSPENDED SOLIDS INFLUENT (MG/L)	117.0	123.0	126.0	143.0	152.0	131.0	155.0	185.0	174.0	164.0	123.0	152.0	145.4	
EFFLUENT (MG/L)	5.0	10.0	8.0	5.0	7.0	5.0	4.0	7.0	5.0	5.0	6.0	8.0	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	102.00	182.30	157.20	109.60	130.76	90.80	61.08	109.97	81.05	79.80	114.42	130.80	113.21	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	5.4	5.3	4.7	7.1	6.6	4.9	6.2	7.2	6.3	8.2	5.9	6.4	6.2	
EFFLUENT (MG/L)	0.6	0.7	0.6	0.7	0.8	0.9	0.9	0.6	0.5	0.8	0.8	0.6	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	12.24	12.76	11.79	15.34	14.94	16.34	13.74	9.42	8.10	12.76	15.25	9.81	12.58	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: LONDON	REGION	: SOUTHWEST
PLANT	: VAUXHALL WPCP	DISTRICT	: MIDDLESEC
WORKS NUMBER	: 120000845	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: THAMES RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 20.91 (1000 M3)	POPULATION SERVED	: 22,981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	19.03	18.14	18.10	18.61	16.79	17.67	16.25	17.47	17.29	17.00	17.10	14.15	17.30	
BOD5														
INFLUENT (MG/L)	364.0	278.0	348.0	305.0	245.0	276.0	387.0	326.0	295.0	370.0	221.0	328.0	311.9	
EFFLUENT (MG/L)	2.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	2.0	4.0	3.0	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	38.06	72.56	72.40	74.44	67.16	70.68	65.00	52.41	69.16	34.00	68.40	42.45	60.55	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	171.0	165.0	194.0	166.0	170.0	229.0	171.0	219.0	239.0	257.0	192.0	209.0	198.5	
EFFLUENT (MG/L)	8.0	8.0	9.0	9.0	7.0	7.0	7.0	6.0	6.0	5.0	9.0	5.0	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	152.24	145.12	162.90	167.49	117.53	123.69	113.75	104.82	103.74	85.00	153.90	70.75	124.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	5.2	4.2	5.7	5.4	4.4	4.8	7.5	6.5	7.7	5.1	5.6	5.7	
EFFLUENT (MG/L)	0.3	0.4	0.3	0.6	0.8	0.6	0.7	1.0	0.8	0.7	0.7	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	5.70	7.25	5.43	11.16	13.43	10.60	11.37	17.47	13.83	11.90	11.97	8.49	10.38	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REGION	: SOUTHWEST
DISTRICT	: MIDDLESEC
OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
WATERCOURSE	: LITTLE AUSABLE RIVER
MINOR BASIN	: HURON
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 1,650

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT	DESIGN CAPACITY
Lucan	Lucan Lagoon	110000855	Conventional Lagoon Seasonal	0.29 (1000 m3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.86 26.79	0.69 19.35	0.92 28.57	1.26 4.05	0.73 29.59	0.79 ND	0.47 ND	0.55 4.79	0.76 22.91	ND ND	0.96 ND	0.63 ND	0.78 19.44	
<u>BOD5</u> INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	129.0 ND	142.0 28.8	138.0 26.7	71.0 19.6	ND 18.9	71.0 ND	38.0 ND	37.0 ND	69.0 18.3	ND ND	73.0 ND	100.0 ND	87.6 22.5 30.0 17.55	
<u>SUSPENDED SOLIDS</u> INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	91.0 ND	160.0 33.6	152.0 32.5	70.0 20.1	ND 20.4	59.0 ND	36.0 ND	19.0 ND	69.0 22.5	ND ND	79.0 ND	87.0 ND	82.2 25.8 40.0 20.12	
<u>TOTAL PHOSPHOROUS</u> INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	7.1 ND	6.9 2.3	8.3 2.4	6.3 1.9	ND 0.4	3.3 ND	3.2 ND	2.8 ND	4.5 1.4	ND ND	4.0 ND	6.0 ND	5.2 1.7 1.33	

PARAM	SUMMARY	
	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
P	NA	NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 W - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1991/12	1992/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: MAIDSTONE	REGION	: SOUTHWEST
PLANT	: BELLE RIVER-MAIDSTONE WPCP	DISTRICT	: ESSEX
WORKS NUMBER	: 110002078	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: LAKE ST-CLAIR
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 6.81 (1000 M3)	POPULATION SERVED	: 8,568

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.09	4.52	4.79	5.82	4.93	6.62	5.86	4.90	4.78	4.57	4.78	4.16	5.07	
BOD5														
INFLUENT (MG/L)	113.0	101.0	118.0	108.0	121.0	93.0	86.0	93.0	93.0	81.0	84.0	117.0	100.7	
EFFLUENT (MG/L)	2.0	1.1	4.4	3.5	3.2	2.0	1.7	1.5	1.4	2.5	1.3	4.5	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.18	4.97	21.07	20.37	15.77	13.24	9.96	7.35	6.69	11.42	6.21	18.72	12.17	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	108.0	133.0	120.0	114.0	133.0	99.0	89.0	111.0	129.0	130.0	105.0	134.0	117.1	
EFFLUENT (MG/L)	10.7	10.8	13.8	13.9	10.0	10.5	9.1	7.0	5.4	6.1	10.9	9.9	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	54.46	48.81	66.10	80.89	49.30	69.51	53.32	34.30	25.81	27.87	52.10	41.18	49.69	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.0	3.4	3.8	2.9	3.6	3.8	3.6	3.1	4.8	4.0	3.3	4.8	3.7	
EFFLUENT (MG/L)	0.3	0.2	0.3	0.2	0.5	0.5	0.3	0.4	0.4	0.4	0.5	0.4	0.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.52	0.90	1.43	1.16	2.46	3.31	1.75	1.96	1.91	1.82	2.39	1.66	2.03	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988
 END DATE 1991/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MARKDALE
PLANT : MARKDALE LAGOON
WORKS NUMBER : 110000418
TREATMENT : AERATED LAGOON

: PHOSPHORUS REMOVAL-CONTINUOUS
: EXFILTRATION LAGOON
: 1.12 (1000 M3)

DESIGN CAPACITY :

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,235

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.39 ND	0.39 ND	0.60 ND	0.54 ND	0.44 ND	0.46 ND	0.36 ND	0.36 ND	0.32 ND	0.35 ND	0.43 ND	0.35 ND	0.42	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	132.0 ND ND ND	131.0 ND ND ND	189.0 ND ND ND	89.0 ND ND ND	158.0 ND ND ND	253.0 ND ND ND	199.0 ND ND ND	267.0 ND ND ND	118.0 ND ND ND	186.0 ND ND ND	165.0 ND ND ND	147.0 ND ND ND	169.5	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	105.0 ND ND ND	120.0 ND ND ND	166.0 ND ND ND	64.0 ND ND ND	94.0 ND ND ND	155.0 ND ND ND	144.0 ND ND ND	180.0 ND ND ND	91.0 ND ND ND	127.0 ND ND ND	98.0 ND ND ND	70.0 ND ND ND	117.8	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	9.3 ND ND ND	7.8 ND ND ND	7.0 ND ND ND	5.4 ND ND ND	12.1 ND ND ND	5.5 ND ND ND	16.4 ND ND ND	12.4 ND ND ND	10.1 ND ND ND	8.7 ND ND ND	6.9 ND ND ND	10.3 ND ND ND	9.3	

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED

START DATE 1988
END DATE 1990/12
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MC GILLIVRAY
 PLANT : PARKHILL LAGOON
 WORKS NUMBER : 110002461
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.10 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : PARKHILL CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,544

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.64	0.59	0.64	0.64	0.58	0.83	0.91	0.71	1.53	0.61	0.77	0.62	0.76	
LAGOON DISCHARGE	ND	ND	ND	ND	130.77	ND	ND	ND	ND	90.81	ND	ND	110.79	
BOD5														
INFLUENT (MG/L)	114.0	126.0	ND	97.0	150.0	133.0	166.0	55.0	117.0	121.0	99.0	121.0	118.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	4.0	ND	ND	ND	ND	1.6	ND	ND	2.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	2.32	ND	ND	ND	ND	0.97	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	5.68	ND	ND	ND	ND	6.64	ND	ND	2.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	143.0	148.0	ND	78.0	116.0	89.0	180.0	375.0	136.0	81.0	103.0	85.0	139.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	9.8	ND	ND	ND	ND	10.9	ND	ND	10.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	5.68	ND	ND	ND	ND	6.64	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	5.68	ND	ND	ND	ND	6.64	ND	ND	7.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.2	7.5	ND	8.3	5.4	5.8	8.6	9.0	8.3	5.4	6.3	6.3	7.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.3	ND	ND	ND	ND	0.1	ND	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.15	
LOADING (KG/D)	ND	ND	ND	ND	0.17	ND	ND	ND	ND	0.06	ND	ND	0.15	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: MEAFORD	REGION	: SOUTHWEST
PLANT	: MEAFORD WPCP	DISTRICT	: GREY
WORKS NUMBER	: 110000445	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: HIGH RATE	WATERCOURSE	: GEORGIAN BAY
		MINOR BASIN	: HURON
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 3.91 (1000 M3)	POPULATION SERVED	: 4,318

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.88	2.93	4.11	3.25	2.61	3.02	2.31	2.28	2.21	2.35	2.86	2.85	2.89	
BOD5														
INFLUENT (MG/L)	54.0	75.0	45.0	54.0	58.0	55.0	90.0	61.0	92.0	79.0	55.0	94.0	67.7	
EFFLUENT (MG/L)	10.6	4.8	7.7	7.8	11.1	16.3	21.0	4.3	7.2	16.0	7.3	10.5	10.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	41.12	14.06	31.64	25.35	28.97	49.22	48.51	9.80	15.91	37.60	20.87	29.92	30.06	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	72.0	85.0	105.0	41.0	129.0	96.0	132.0	86.0	136.0	82.0	46.0	63.0	89.4	
EFFLUENT (MG/L)	20.9	7.3	13.0	7.1	6.6	7.0	7.3	4.6	6.3	8.5	7.3	6.9	8.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	81.09	21.38	53.43	23.07	17.22	21.14	16.86	10.48	13.92	19.97	20.87	19.66	24.85	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	4.6	2.8	3.1	3.5	4.0	3.0	10.5	6.7	4.9	3.6	5.0	4.6	
EFFLUENT (MG/L)	2.1	2.4	1.6	1.9	2.3	2.5	2.2	3.8	4.3	4.1	2.1	2.5	2.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	8.14	7.03	6.57	6.17	6.00	7.55	5.08	8.66	9.50	9.63	6.00	7.12	7.80	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	YES	NO
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED
 FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE	END DATE	COMPLIANCE
1988	1992/12	
1987	1990/12	

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILDWAY
 PLANT : MILDWAY WPCP
 WORKS NUMBER : 110002194
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.96 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : OTTER CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 973

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.80	0.70	0.83	0.79	0.73	0.75	0.71	0.64	0.58	0.58	0.67	0.60	0.70	
BOD5														
INFLUENT (MG/L)	128.0	79.0	97.0	81.0	95.0	64.0	97.0	83.0	89.0	84.0	90.0	77.0	88.7	
EFFLUENT (MG/L)	4.5	4.7	3.8	2.6	3.6	1.2	1.3	0.8	1.6	2.5	4.4	2.9	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.60	3.29	3.15	2.05	2.62	0.90	0.92	0.51	0.92	1.45	2.94	1.74	1.96	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	299.0	149.0	156.0	103.0	127.0	139.0	137.0	209.0	155.0	98.0	120.0	103.0	149.6	
EFFLUENT (MG/L)	5.6	5.5	6.3	6.0	6.5	4.9	4.1	4.7	8.2	4.5	4.8	5.2	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.48	3.85	5.22	4.74	4.74	3.67	2.91	3.00	4.75	2.61	3.21	3.12	3.85	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	4.9	5.7	5.3	5.9	4.7	5.2	4.6	6.1	5.7	5.1	3.8	5.3	
EFFLUENT (MG/L)	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.3	1.1*	0.4	0.2	0.4	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	
LOADING (KG/D)	0.32	0.21	0.24	0.23	0.29	0.30	0.35	0.32	0.17	0.63	0.26	0.12	0.28	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

COMPLIES
 WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L NO

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED

ANTICIPATED

START DATE	END DATE	COMPLIANCE
1989/10	1989/11	1989/11

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MILVERTON
: MILVERTON LAGOON
: 110001079
: CONVENTIONAL LAGOON SEASONAL
: AERATED CELL PLUS LAGOON
: PHOSPHORUS REMOVAL-CONTINUOUS
: 1.01 (1000 M3)

REGION : SOUTHWEST
DISTRICT : PERTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BOYLE DRAIN
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,484

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.73	0.55	0.72	0.78	0.76	0.79	0.49	0.95	0.47	0.58	0.68	0.58	0.67	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	96.00	672.00	ND	364.00	
BOD5	126.0	129.0	89.0	96.0	134.0	119.0	65.0	173.0	122.0	154.0	160.0	ND	124.3	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	ND	8.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.71	ND	5.63	
LOADING (KG/D)														
SUSPENDED SOLIDS	160.0	142.0	82.0	105.0	101.0	116.0	102.0	186.0	124.0	350.0	181.0	ND	149.9	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.4	ND	30.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.67	ND	20.37	
LOADING (KG/D)														
TOTAL PHOSPHOROUS	6.9	8.4	5.6	6.6	7.0	7.5	8.2	11.7	9.3	10.0	16.3	ND	8.9	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.3	
EFFLUENT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20	ND	0.20	
LOADING (KG/D)														

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG, " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MITCHELL
 PLANT : MITCHELL LAGOON
 WORKS NUMBER : 110000472
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 3.56 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : PERTH
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : THAMES RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,078

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.94	2.28	2.78	3.15	2.26	2.23	1.77	1.74	1.82	1.89	2.72	2.02	2.30	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	338.0	451.0	403.0	276.0	530.0	403.0	414.0	359.0	574.0	593.0	173.0	296.0	400.8	
EFFLUENT (MG/L)	ND	ND	ND	20.2	ND	ND	ND	ND	ND	ND	16.4	16.0	17.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	63.63	ND	ND	ND	ND	ND	ND	44.60	32.32	40.25	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	199.0	375.0	226.0	237.0	390.0	228.0	232.0	132.0	636.0	531.0	192.0	320.0	308.2	
EFFLUENT (MG/L)	ND	ND	ND	41.4	ND	ND	ND	ND	ND	ND	41.5	23.2	35.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	130.41	ND	ND	ND	ND	ND	ND	112.88	46.86	81.42	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.4	11.9	8.7	7.1	12.5	9.6	12.5	10.5	17.2	11.7	13.0	13.7	11.7	
EFFLUENT (MG/L)	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	0.5	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	2.52	ND	ND	ND	ND	ND	ND	1.36	1.41	1.61	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	
PARM CRITERIA	COMPLIES WITH CONC
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

OPERATIONAL/PROCESS - CONVERTING TO ALTERNATIVE PROCESS

START DATE 1988
 END DATE 1992/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOORE
 PLANT : BRIGDEN P.V. LAGOON
 WORKS NUMBER : 110002023
 TREATMENT : CONVENTIONAL LAGOON ANNUAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.33 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LANBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BEAR CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 641

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.22	0.22	0.27	0.27	0.24	0.27	0.22	0.24	0.26	0.26	0.28	0.25	0.25	
LAGOON DISCHARGE	ND	ND	ND	44.52	ND	ND	ND	ND	ND	ND	ND	ND	44.52	
BOD5														
INFLUENT (MG/L)	ND	179.0	159.0	113.0	146.0	133.0	176.0	213.0	201.0	182.0	169.0	202.0	170.3	
EFFLUENT (MG/L)	ND	ND	ND	13.6	ND	ND	ND	ND	ND	ND	ND	ND	13.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	13.6	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	3.67	ND	ND	ND	ND	ND	ND	ND	ND	3.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	131.0	156.0	134.0	154.0	151.0	163.0	314.0	202.0	283.0	112.0	125.0	175.0	
EFFLUENT (MG/L)	ND	ND	ND	44.3	ND	ND	ND	ND	ND	ND	ND	ND	44.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	44.3	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	11.96	ND	ND	ND	ND	ND	ND	ND	ND	11.08	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	10.1	9.3	8.2	9.2	9.6	10.7	8.2	9.9	10.4	9.4	11.4	9.7	
EFFLUENT (MG/L)	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	0.23	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOORE
 PLANT : CORUNNA P.V. WPCP
 WORKS NUMBER : 110000481
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 4.54 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ST. CLAIR RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,650

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.16	2.10	2.31	2.20	2.06	2.19	1.93	1.92	2.16	2.09	2.33	2.84	2.19	
BOD5														
INFLUENT (MG/L)	89.0	119.0	175.0	108.0	111.0	107.0	119.0	111.0	103.0	210.0	150.0	170.0	131.0	
EFFLUENT (MG/L)	3.7	11.9	8.7	4.2	7.5	3.7	3.6	0.6	4.0	4.7	7.7	3.7	5.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.99	24.99	20.09	9.24	15.45	8.10	6.94	1.15	8.64	9.82	17.94	10.50	11.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	122.0	192.0	97.0	98.0	101.0	82.0	118.0	127.0	208.0	76.0	89.0	116.8	
EFFLUENT (MG/L)	11.2	12.8	10.9	7.6	9.1	7.0	5.3	5.9	8.5	8.3	10.3	7.7	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	24.19	26.88	25.17	16.72	18.74	15.33	10.22	11.32	18.36	17.34	23.99	21.86	19.05	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	6.9	7.0	6.4	3.8	6.3	7.0	6.4	6.3	9.2	6.5	7.5	6.7	
EFFLUENT (MG/L)	0.3	0.5	0.2	0.1	0.1	0.2	0.3	0.5	0.4	0.3	0.2	0.2	0.3	
CONCENTRATION LIMIT (MG/L)													0.66	
LOADING (KG/D)	0.64	1.05	0.46	0.22	0.20	0.43	0.57	0.96	0.86	0.62	0.46	0.56		

SUMMARY		COMPLIES
PARM	CRITERIA WITH CONC	
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOORE
 PLANT : COURTRIGHT WPCP
 WORKS NUMBER : 110001818
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.68 (1000 M3)
 REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ST CLAIR RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,526

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.50	0.61	0.61	0.55	0.53	0.47	0.47	0.54	0.50	0.56	0.46	0.53	
BOD5														
INFLUENT (MG/L)	105.0	561.0	215.0	115.0	215.0	118.0	102.0	111.0	78.0	163.0	155.0	263.0	183.4	
EFFLUENT (MG/L)	12.0	9.5	8.7	3.2	4.1	4.8	4.2	3.3	15.0	3.5	3.6	2.9	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.60	4.75	5.30	1.95	2.25	2.54	1.97	1.55	8.10	1.75	2.01	1.33	3.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	715.0	347.0	114.0	269.0	99.0	89.0	73.0	81.0	136.0	116.0	542.0	226.2	
EFFLUENT (MG/L)	19.3	11.1	15.1	4.7	4.1	8.9	7.6	9.4	11.3	0.9	2.0	3.2	8.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.61	5.55	9.21	2.86	2.25	4.71	3.57	4.41	6.10	0.45	1.12	1.47	4.29	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	20.2	10.0	7.8	8.9	9.2	7.1	6.1	6.3	6.3	9.0	16.6	9.6	
EFFLUENT (MG/L)	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.16	0.15	0.12	0.06	0.11	0.10	0.09	0.09	0.16	0.10	0.05	0.04	0.11	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORMANBY
 PLANT : NEUSTADT LAGOON
 WORKS NUMBER : 110002443
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.41 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : GREY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SOUTH SAUGEEN RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 463

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.12	0.18	0.18	0.15	0.13	0.09	0.08	0.08	0.09	0.15	0.13	0.13	
LAGOON DISCHARGE	ND	ND	ND	ND	39.14	ND	ND	ND	ND	ND	ND	ND	39.14	
BOD5 INFLUENT (MG/L)	97.0	125.0	113.0	85.0	151.0	114.0	121.0	142.0	229.0	127.0	145.0	134.0	131.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	0.33	
SUSPENDED SOLIDS INFLUENT (MG/L)	96.0	121.0	112.0	70.0	136.0	152.0	82.0	142.0	292.0	131.0	169.0	131.0	136.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	7.6	ND	ND	ND	ND	ND	ND	ND	7.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	1.14	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	1.14	ND	ND	ND	ND	ND	ND	ND	0.99	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	5.1	7.4	6.6	5.0	5.7	7.9	7.0	8.7	10.6	9.8	9.1	6.5	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORWICH LAGOON
 PLANT : NORWICH LAGOON
 WORKS NUMBER : 110001480
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 DESIGN CAPACITY : 0.99 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : OXFORD
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BIG OTTER CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,313

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.86	0.77	0.88	1.02	0.79	0.81	0.67	0.65	0.62	0.64	0.99	0.74	0.79	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	100.0	149.0	145.0	71.0	136.0	208.0	189.0	140.0	166.0	175.0	227.0	236.0	161.8	
EFFLUENT (MG/L)	ND	ND	ND	12.7	ND	ND	ND	ND	ND	1.9	12.3	ND	9.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	12.95	ND	ND	ND	ND	ND	1.21	12.17	ND	7.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	279.0	144.0	337.0	103.0	270.0	216.0	159.0	162.0	122.0	99.0	170.0	147.0	184.0	
EFFLUENT (MG/L)	ND	ND	ND	6.5	ND	ND	ND	ND	ND	2.4	19.2	ND	9.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	6.63	ND	ND	ND	ND	ND	1.53	19.00	ND	7.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	8.2	8.4	5.1	7.0	9.1	9.3	5.2	7.9	7.7	10.3	10.1	7.9	
EFFLUENT (MG/L)	ND	ND	ND	0.3	ND	ND	ND	ND	ND	0.3	0.5	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.30	ND	ND	ND	ND	ND	0.19	0.49	ND	0.32	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED MONTHLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OIL SPRINGS
 PLANT : OIL SPRINGS LAGOON
 WORKS NUMBER : 110001998
 TREATMENT : CONVENTIONAL LAGOON ANNUAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.27 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMOTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BLACK CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 609

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.18	0.17	0.20	0.23	0.16	0.18	0.15	0.15	0.20	0.17	0.20	0.17	0.18	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	97.0	45.0	14.0	102.0	119.0	112.0	113.0	115.0	113.0	133.0	162.0	101.0	102.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	3.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	ND	ND	0.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	87.0	53.0	24.0	68.0	109.0	68.0	115.0	93.0	113.0	68.0	101.0	61.0	81.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.4	ND	ND	29.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.99	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.99	ND	ND	5.29	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	8.5	4.5	7.8	7.0	8.0	7.9	8.1	7.7	6.5	7.9	8.5	7.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	0.05	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	NO
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE 1990/04

MUNICIPALITY	:	OWEN SOUND	:	REGION	:	SOUTHWEST
PLANT	:	OWEN SOUND WPCP	:	DISTRICT	:	GREY
WORKS NUMBER	:	110000551	:	OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
TREATMENT	:	PRIMARY	:	WATERCOURSE	:	GEORGIAN BAY
	:	PHOSPHORUS REMOVAL-CONTINUOUS	:	MINOR BASIN	:	HURON
	:		:	MAJOR BASIN	:	GREAT LAKES
DESIGN CAPACITY	:	24.54 (1000 M3)	:	POPULATION SERVED	:	20,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.33	13.04	20.25	15.56	12.92	15.00	10.67	10.58	10.67	10.54	15.17	11.74	13.62	
BOD5														
INFLUENT (MG/L)	62.0	74.0	82.0	43.0	81.0	50.0	97.0	118.0	101.0	172.0	142.0	97.0	93.3	
EFFLUENT (MG/L)	23.6	27.4	21.1	22.0	29.6	14.6	27.8	25.3	36.4	34.7	31.7	20.0	26.2	
LOADING (KG/D)	408.98	357.29	427.27	342.32	382.43	219.00	296.62	267.67	388.38	365.73	480.88	234.80	356.84	
PERCENT REMOVAL	62	63	74	49	63	71	71	79	64	80	78	79	72	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	104.0	119.0	104.0	108.0	110.0	113.0	118.0	123.0	132.0	116.0	136.0	117.0	116.7	
EFFLUENT (MG/L)	28.7	18.7	22.0	18.4	20.8	23.8	18.3	25.4	28.5	20.1	22.0	23.5	22.5	
LOADING (KG/D)	497.37	243.84	445.50	286.30	268.73	357.00	195.26	268.73	304.09	211.85	333.74	275.89	306.45	
PERCENT REMOVAL	72	84	79	83	81	79	84	79	78	83	84	80	81	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	4.6	3.5	2.2	3.9	3.4	4.3	5.9	4.9	5.2	4.2	4.4	4.2	
EFFLUENT (MG/L)	0.9	0.7	0.7	0.5	0.5	0.5	0.9	0.5	1.0	1.0	1.0	0.4	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	15.59	9.12	14.17	7.78	6.46	7.50	9.60	5.29	10.67	10.54	15.17	4.69	9.53	

NOTE:

- BOD - ASSESSED ANNUALLY
- SS - ASSESSED ANNUALLY
- TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
- SPACE (EG. " ") INDICATES A VALUE OF ZERO
- ND - NO DATA
- NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE
12/1/2010	12/31/2010	100%
12/1/2011	12/31/2011	100%
12/1/2012	12/31/2012	100%
12/1/2013	12/31/2013	100%
12/1/2014	12/31/2014	100%
12/1/2015	12/31/2015	100%
12/1/2016	12/31/2016	100%
12/1/2017	12/31/2017	100%
12/1/2018	12/31/2018	100%
12/1/2019	12/31/2019	100%
12/1/2020	12/31/2020	100%
12/1/2021	12/31/2021	100%
12/1/2022	12/31/2022	100%
12/1/2023	12/31/2023	100%
12/1/2024	12/31/2024	100%
12/1/2025	12/31/2025	100%
12/1/2026	12/31/2026	100%
12/1/2027	12/31/2027	100%
12/1/2028	12/31/2028	100%
12/1/2029	12/31/2029	100%
12/1/2030	12/31/2030	100%
12/1/2031	12/31/2031	100%
12/1/2032	12/31/2032	100%
12/1/2033	12/31/2033	100%
12/1/2034	12/31/2034	100%
12/1/2035	12/31/2035	100%
12/1/2036	12/31/2036	100%
12/1/2037	12/31/2037	100%
12/1/2038	12/31/2038	100%
12/1/2039	12/31/2039	100%
12/1/2040	12/31/2040	100%
12/1/2041	12/31/2041	100%
12/1/2042	12/31/2042	100%
12/1/2043	12/31/2043	100%
12/1/2044	12/31/2044	100%
12/1/2045	12/31/2045	100%
12/1/2046	12/31/2046	100%
12/1/2047	12/31/2047	100%
12/1/2048	12/31/2048	100%
12/1/2049	12/31/2049	100%
12/1/2050	12/31/2050	100%
12/1/2051	12/31/2051	100%
12/1/2052	12/31/2052	100%
12/1/2053	12/31/2053	100%
12/1/2054	12/31/2054	100%
12/1/2055	12/31/2055	100%
12/1/2056	12/31/2056	100%
12/1/2057	12/31/2057	100%
12/1/2058	12/31/2058	100%
12/1/2059	12/31/2059	100%
12/1/2060	12/31/2060	100%
12/1/2061	12/31/2061	100%
12/1/2062	12/31/2062	100%
12/1/2063	12/31/2063	100%
12/1/2064	12/31/2064	100%
12/1/2065	12/31/2065	100%
12/1/2066	12/31/2066	100%
12/1/2067	12/31/2067	100%
12/1/2068	12/31/2068	100%
12/1/2069	12/31/2069	100%
12/1/2070	12/31/2070	100%
12/1/2071	12/31/2071	100%
12/1/2072	12/31/2072	100%
12/1/2073	12/31/2073	100%
12/1/2074	12/31/2074	100%
12/1/2075	12/31/2075	100%
12/1/2076	12/31/2076	100%
12/1/2077	12/31/2077	100%
12/1/2078	12/31/2078	100%
12/1/2079	12/31/2079	100%
12/1/2080	12/31/2080	100%
12/1/2081	12/31/2081	100%
12/1/2082	12/31/2082	100%
12/1/2083	12/31/2083	100%
12/1/2084	12/31/2084	100%
12/1/2085	12/31/2085	100%
12/1/2086	12/31/2086	100%
12/1/2087	12/31/2087	100%
12/1/2088	12/31/2088	100%
12/1/2089	12/31/2089	100%
12/1/2090	12/31/2090	100%
12/1/2091	12/31/2091	100%
12/1/2092	12/31/2092	100%
12/1/2093	12/31/2093	100%
12/1/2094	12/31/2094	100%
12/1/2095	12/31/2095	100%

REMEDIAL MEASURES

COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS
MANPOWER - ADDITIONAL STAFF BEING HIRED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PAISLEY
PLANT : PAISLEY WPCP
WORKS NUMBER : 110001907
TREATMENT : OXIDATION DITCH

: PHOSPHORUS REMOVAL - CONTINUOUS
: :
: 0.70 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 653

DESIGN CAPACITY :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.41	0.32	0.39	0.35	0.30	0.34	0.28	0.28	0.29	0.32	0.37	0.35	0.33	
BOD5														
INFLUENT (MG/L)	60.0	108.0	109.0	65.0	86.0	67.0	87.0	114.0	89.0	84.0	68.0	114.0	87.6	
EFFLUENT (MG/L)	3.7	7.8	4.3	2.3	1.6	1.8	0.9	1.3	1.3	2.0	2.5	5.9	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.51	2.49	1.67	0.80	0.48	0.61	0.25	0.36	0.37	0.64	0.92	2.06	0.99	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	96.0	266.0	136.0	60.0	105.0	96.0	150.0	103.0	138.0	101.0	219.0	91.0	130.1	
EFFLUENT (MG/L)	4.9	14.7	4.7	2.5	3.0	3.0	2.6	4.1	1.6	2.6	5.6	16.3	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.00	4.70	1.83	0.87	0.90	1.02	0.72	1.14	0.46	0.83	2.07	5.70	1.82	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	5.4	5.5	4.4	5.8	5.9	6.3	5.5	6.1	5.0	5.1	6.1	5.6	
EFFLUENT (MG/L)	0.4	0.8	0.4	0.3	0.4	0.5	0.6	0.8	0.5	0.5	0.5	0.7	0.5	
CONCENTRATION LIMIT (MG/L)													0.5	
LOADING (KG/D)	0.16	0.25	0.15	0.10	0.12	0.17	0.16	0.22	0.14	0.16	0.18	0.24	0.17	

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE : 1988
END DATE : 1991/12
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PETROLIA
 PLANT : PETROLIA WPCP + LAGOON
 WORKS NUMBER : 110000579
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 DESIGN CAPACITY : 3.18 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BEAR CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,168

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.44	1.57	1.56	1.73	1.67	1.68	1.37	1.54	1.58	1.49	1.75	1.59	1.58	
BOD5														
INFLUENT (MG/L)	152.0	134.0	138.0	175.0	175.0	306.0	169.0	259.0	167.0	140.0	131.0	182.0	177.3	
EFFLUENT (MG/L)	2.7	4.4	1.9	3.4	3.4	1.5	1.2	0.4	0.9	2.2	2.2	5.9	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.88	6.90	2.96	5.88	5.67	2.52	1.64	0.61	1.42	3.27	3.85	9.38	3.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	183.0	165.0	166.0	173.0	173.0	344.0	235.0	239.0	200.0	119.0	105.0	112.0	184.5	
EFFLUENT (MG/L)	4.5	6.3	5.5	4.3	4.3	2.5	2.6	2.2	2.0	7.9	2.2	9.1	4.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.48	9.89	8.58	7.43	7.18	4.20	3.56	3.38	3.16	11.77	3.85	14.46	7.11	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	7.3	7.0	8.2	8.2	9.1	8.3	7.7	7.6	6.5	5.4	7.1	7.5	
EFFLUENT (MG/L)	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.5	0.3	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.43	0.62	0.46	0.51	0.50	0.50	0.41	0.30	0.63	0.74	0.52	0.79	0.47	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PLYMPTON
PLANT : WYOMING WPCP
WORKS NUMBER : 110002489
TREATMENT : EXTENDED AERATION

: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 1.12 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : STONEHOUSE DRAIN
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,824

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.48	0.43	0.45	0.47	0.46	0.48	0.45	0.45	0.49	0.48	0.50	0.48	0.47	
BOD5														
INFLUENT (MG/L)	169.0	232.0	162.0	146.0	202.0	163.0	172.0	176.0	167.0	194.0	185.0	196.0	180.3	
EFFLUENT (MG/L)	2.1	4.3	3.1	2.2	3.2	1.6	1.2	0.4	0.8	3.1	2.0	5.1	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.00	1.84	1.39	1.03	1.47	0.76	0.54	0.18	0.39	1.48	1.00	2.44	1.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	260.0	609.0	232.0	120.0	217.0	179.0	190.0	103.0	260.0	188.0	155.0	113.0	218.8	
EFFLUENT (MG/L)	3.0	6.7	5.7	2.6	4.3	3.0	1.6	1.8	1.3	7.0	1.7	9.2	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.44	2.88	2.56	1.22	1.97	1.44	0.72	0.81	0.63	3.36	0.85	4.41	1.88	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.5	24.8	11.6	10.8	10.3	10.8	11.8	9.0	11.6	11.0	9.0	10.2	12.0	
EFFLUENT (MG/L)	0.3	0.4	0.3	0.2	0.4	0.2	0.3	0.2	0.3	0.5	0.3	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)	0.14	0.17	0.13	0.09	0.18	0.09	0.13	0.09	0.14	0.24	0.15	0.24	0.14	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : POINT EDWARD
 PLANT : POINT EDWARD WPCP
 WORKS NUMBER : 110000597
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 2.59 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ST. CLAIR RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,120

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.34	1.65	1.51	1.31	1.50	1.54	1.82	1.72	1.68	1.71	1.53	1.43	1.56	
BOD5														
INFLUENT (MG/L)	92.0	99.0	82.0	90.0	104.0	101.0	97.0	45.0	82.0	151.0	55.0	85.0	90.3	
EFFLUENT (MG/L)	66.4	69.2	62.9	56.7	71.5	86.6	63.1	72.6	63.0	64.8	79.8	94.5	70.9	
LOADING (KG/D)	88.97	114.18	94.97	74.27	107.25	133.36	114.84	124.87	105.84	110.80	122.09	135.13	110.60	
PERCENT REMOVAL	28	30	23	37	31	14	35	ND	23	57	ND	ND	21*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	119.0	94.0	93.0	119.0	118.0	116.0	67.0	96.0	97.0	51.0	71.0	96.0	
EFFLUENT (MG/L)	41.7	55.5	60.9	42.0	66.9	60.6	55.8	43.1	55.5	52.7	52.3	71.4	54.9	
LOADING (KG/D)	55.87	91.57	91.95	55.02	100.35	93.32	101.55	74.13	93.24	90.11	80.01	102.10	85.64	
PERCENT REMOVAL	62	53	35	55	44	49	52	36	42	46	ND	ND	43*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	15.8	6.5	4.8	5.7	5.4	7.1	5.3	2.7	4.2	6.2	3.1	5.0	6.0	
EFFLUENT (MG/L)	3.1*	3.4*	3.2*	2.8*	2.3*	3.7*	2.8*	1.1*	1.6*	2.8*	0.8	3.8*	2.6	11
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	4.15	5.61	4.83	3.66	3.45	5.69	4.73	1.89	2.68	4.78	1.22	5.43	4.06	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	50%	NO
SS	70%	NO
TP	1.0 MG/L	NO

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE 1988
 END DATE 1991/12
 COMPLIANCE 1992/01

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : PORT BURWELL
 PLANT : PORT BURWELL WPCP
 WORKS NUMBER : 110001319
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 0.52 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ELGIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BIG OTTER CR.- LAKE ERIE
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 760

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.18	0.19	0.23	0.22	0.22	0.22	0.22	0.20	0.20	0.21	0.17	0.21	
BOD5														
INFLUENT (MG/L)	177.0	289.0	226.0	220.0	201.0	207.0	249.0	209.0	179.0	223.0	176.0	197.0	212.8	
EFFLUENT (MG/L)	3.7	4.3	1.8	4.4	12.0	1.6	1.5	1.2	1.5	2.6	2.7	3.1	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.74	0.77	0.34	1.01	2.64	0.35	0.33	0.26	0.30	0.52	0.56	0.52	0.71	
LOADING LIMIT (KG/D)													13.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	159.0	219.0	211.0	163.0	161.0	189.0	241.0	188.0	243.0	158.0	144.0	189.0	188.8	
EFFLUENT (MG/L)	9.6	9.0	7.2	8.4	12.8	4.6	6.6	5.4	4.7	6.1	6.3	10.2	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.92	1.62	1.36	1.93	2.81	1.01	1.45	1.18	0.94	1.22	1.32	1.73	1.60	
LOADING LIMIT (KG/D)													13.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	10.3	10.9	13.0	8.8	9.6	10.6	11.7	9.7	11.3	9.4	9.6	11.5	10.5	
EFFLUENT (MG/L)	0.4	0.5	0.2	0.6	0.5	1.4	0.8	0.5	0.3	0.2	0.3	0.4	0.5	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.08	0.09	0.03	0.13	0.11	0.30	0.17	0.11	0.06	0.04	0.06	0.06	0.11	
LOADING LIMIT (KG/D)													0.53	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			
PARM	CRITERIA	LOADING	COMPLIES WITH CONC LOADING
BOD	25.0 MG/L	13.20 KG/D	YES YES
SS	25.0 MG/L	13.20 KG/D	YES YES
TP	1.0 MG/L	0.53 KG/D	YES YES

REMEDIAL MEASURES

OPERATIONAL/PROCESS - ELECTRONIC PROCESS CONTROL BEING IMPLEMENTED

START DATE 1989/07
 END DATE 1989/07
 ANTICIPATED COMPLIANCE 1989/07

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT BURWELL
 PLANT : PORT BURWELL WPCP
 WORKS NUMBER : 110001319
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.52 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ELGIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BIG OTTER CR. - LAKE ERIE
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 780

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.18	0.19	0.23	0.22	0.22	0.22	0.22	0.20	0.20	0.21	0.17	0.21	
BOD5 INFLUENT (MG/L)	177.0	289.0	226.0	220.0	201.0	207.0	249.0	209.0	179.0	223.0	176.0	197.0	212.8	
EFFLUENT (MG/L)	3.7	4.3	1.8	4.4	12.0	1.6	1.5	1.2	1.5	2.6	2.7	3.1	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.74	0.77	0.34	1.01	2.64	0.35	0.33	0.26	0.30	0.52	0.56	0.52	0.71	
SUSPENDED SOLIDS INFLUENT (MG/L)	159.0	219.0	211.0	163.0	161.0	189.0	241.0	188.0	243.0	158.0	144.0	189.0	188.8	
EFFLUENT (MG/L)	9.6	9.0	7.2	8.4	12.8	4.6	6.6	5.4	4.7	6.1	6.3	10.2	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.92	1.62	1.36	1.93	2.81	1.01	1.45	1.18	0.94	1.22	1.32	1.73	1.60	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	10.3	10.9	13.0	8.8	9.6	10.6	11.7	9.7	11.3	9.4	9.6	11.5	10.5	1
EFFLUENT (MG/L)	0.4	0.5	0.2	0.6	0.5	1.4*	0.8	0.5	0.3	0.2	0.3	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.11	
LOADING (KG/D)	0.08	0.09	0.03	0.13	0.11	0.30	0.17	0.11	0.06	0.04	0.06	0.06	0.11	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - ELECTRONIC PROCESS CONTROL BEING IMPLEMENTED

START DATE 1989/07
 END DATE 1989/07
 ANTICIPATED COMPLIANCE 1989/07

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT ELGIN
 PLANT : PORT ELGIN WPCP
 WORKS NUMBER : 120001470
 TREATMENT : OXIDATION DITCH
 :
 :
 DESIGN CAPACITY : 6.45 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : SAUGEEN RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,115

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.07	4.69	3.98	4.43	3.77	3.94	3.69	3.48	3.45	3.48	3.72	3.90	3.97	
BOD5														
INFLUENT (MG/L)	40.4	72.0	105.0	106.0	66.0	67.0	228.0	60.0	68.0	74.0	91.0	55.0	86.0	
EFFLUENT (MG/L)	4.0	21.5	7.8	6.9	1.8	3.5	4.8	4.5	ND	9.1	3.4	4.2	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	20.28	100.83	31.04	30.56	6.78	13.79	17.71	15.66	ND	31.66	12.64	16.38	25.81	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	84.3	144.0	82.0	98.0	105.0	133.0	402.0	232.0	161.0	96.0	206.0	89.0	152.7	
EFFLUENT (MG/L)	9.9	13.8	4.6	7.1	1.7	4.6	5.8	5.8	2.5	3.9	5.1	2.2	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	50.19	64.72	18.30	31.45	6.40	18.12	21.40	20.18	8.62	13.57	18.97	8.58	22.23	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	5.3	4.5	4.6	4.6	4.2	7.1	0.4	5.0	5.5	5.6	4.1	4.5	
EFFLUENT (MG/L)	0.6	0.9	0.7	0.5	0.1	0.9	0.9	0.8	0.8	0.9	1.1	0.5	0.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.04	4.22	2.78	2.21	0.37	3.54	3.32	2.78	2.76	3.13	4.09	1.95	2.78	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT STANLEY LAGOON
 PLANT : PORT STANLEY LAGOON
 WORKS NUMBER : 110001373
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.49 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ELGIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DITCH TO KETTLE CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,416

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.10	0.96	1.06	1.22	1.15	1.44	1.35	1.33	1.22	1.04	1.08	0.98	1.16	
LAGOON DISCHARGE	ND	ND	ND	96.16	111.90	23.80	ND	ND	2.60	102.81	81.58	ND	69.81	
BOD5														
INFLUENT (MG/L)	48.0	45.0	54.0	40.0	33.0	103.0	167.0	42.0	72.0	46.0	45.0	59.0	62.8	
EFFLUENT (MG/L)	ND	ND	ND	24.9	16.1	3.8	ND	ND	ND	7.0	7.8	ND	11.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	30.37	18.51	5.47	ND	ND	ND	7.28	8.42	ND	13.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	43.0	58.0	53.0	22.0	21.0	88.0	108.0	60.0	59.0	28.0	42.0	36.0	51.5	
EFFLUENT (MG/L)	ND	ND	ND	30.4	11.9	6.6	ND	ND	ND	12.2	17.5	ND	15.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	37.08	13.68	9.50	ND	ND	ND	12.68	18.90	ND	18.21	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	3.1	3.3	2.2	1.9	4.1	6.7	2.7	3.8	3.2	3.7	4.1	3.5	
EFFLUENT (MG/L)	ND	ND	ND	0.9	0.8	1.1*	ND	ND	ND	0.5	0.3	ND	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	
LOADING (KG/D)	ND	ND	ND	1.09	0.92	1.58	ND	ND	ND	0.52	0.32	ND	0.81	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RALEIGH-TILBURY EAST
 PLANT : MERLIN PV LAGOON
 WORKS NUMBER : 110000935
 TREATMENT : CONVENTIONAL LAGOON ANNUAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.46 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : KENT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : FOXTON DR. - JEANETTES CK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 523

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.16	0.16	0.15	0.17	0.20	0.20	0.16	0.15	0.16	0.16	0.17	0.16	0.17	
LAGOON DISCHARGE	ND	ND	ND	6.08	ND	ND	ND	ND	ND	ND	24.36	ND	15.22	
BOD5														
INFLUENT (MG/L)	264.0	306.0	315.0	81.0	58.0	43.0	106.0	141.0	224.0	512.0	217.0	328.0	216.3	
EFFLUENT (MG/L)	ND	ND	ND	23.2	ND	ND	ND	ND	ND	ND	8.1	ND	15.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	3.94	ND	ND	ND	ND	ND	ND	1.37	ND	2.67	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	481.0	447.0	321.0	53.0	39.0	43.0	98.0	86.0	217.0	660.0	158.0	204.0	233.9	
EFFLUENT (MG/L)	ND	ND	ND	126.0	ND	ND	ND	ND	ND	ND	61.1	ND	93.6M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	21.42	ND	ND	ND	ND	ND	ND	10.38	ND	15.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	6.0	9.2	4.8	4.1	3.7	6.3	5.1	8.3	13.9	7.4	11.1	7.2	
EFFLUENT (MG/L)	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	0.5	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	0.08	ND	0.12	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	NO
TP 1.0 MG/L	YES

REMEDIAL MEASURES :
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE
 START DATE : 1988/02
 END DATE : 1990/01
 ANTICIPATED COMPLIANCE : 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RIDGETOWN LAGOON
 PLANT : RIDGETOWN LAGOON
 WORKS NUMBER : 110001364
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 1.33 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : KENT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GAWNE DR TO MCGREGOR CK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,152

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.98 ND	0.98 ND	1.03 ND	1.12 ND	1.15 184.89	1.25 ND	1.11 ND	1.03 ND	1.08 ND	1.11 90.35	1.18 ND	1.13 ND	1.10 137.62	
BOD5 INFLUENT (MG/L)	132.0	108.0	176.0	150.0	117.0	128.0	106.0	288.0	158.0	140.0	120.0	182.0	150.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	26.8	ND	ND	ND	ND	5.7	ND	ND	16.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	30.82	ND	ND	ND	ND	6.32	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.93	
SUSPENDED SOLIDS INFLUENT (MG/L)	243.0	153.0	229.0	180.0	200.0	194.0	296.0	221.0	211.0	202.0	129.0	129.0	198.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	70.4	ND	ND	ND	ND	22.4	ND	ND	46.4*	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	80.96	ND	ND	ND	ND	24.86	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.04	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	7.8	8.1	9.5	9.4	8.3	5.9	6.6	7.3	8.1	8.5	6.6	7.3	7.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.1*	ND	ND	ND	ND	1.5*	ND	ND	1.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	
LOADING (KG/D)	ND	ND	ND	ND	1.26	ND	ND	ND	ND	1.66	ND	ND	1.43	
														2

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED

START DATE 1989
 END DATE 1990/01
 ANTICIPATED COMPLIANCE 1990/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RODNEY LAGOON
 PLANT : RODNEY LAGOON
 WORKS NUMBER : 110001667
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.54 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ELGIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SIXTEEN MILE CK.
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,027

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.35	0.34	0.34	0.38	0.37	0.44	0.39	0.38	0.36	0.36	0.41	0.28	0.37	
LAGOON DISCHARGE	ND	ND	ND	91.12	ND	ND	ND	ND	ND	135.96	ND	ND	113.54	
BOD5														
INFLUENT (MG/L)	828.0	82.0	125.0	135.0	170.0	76.0	296.0	59.0	104.0	435.0	556.0	436.0	275.2	
EFFLUENT (MG/L)	ND	ND	ND	22.2	ND	ND	ND	ND	ND	12.0	ND	ND	17.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	8.43	ND	ND	ND	ND	ND	4.32	ND	ND	6.33	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	382.0	27.0	69.0	69.0	88.0	35.0	116.0	45.0	38.0	235.0	255.0	263.0	135.2	
EFFLUENT (MG/L)	ND	ND	ND	38.5	ND	ND	ND	ND	ND	24.1	ND	ND	31.3M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	14.63	ND	ND	ND	ND	ND	8.67	ND	ND	11.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.1	2.7	7.1	3.6	8.2	3.1	6.6	4.1	4.6	8.7	8.6	10.1	6.5	
EFFLUENT (MG/L)	ND	ND	ND	0.6	ND	ND	ND	ND	ND	0.4	ND	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.22	ND	ND	ND	ND	ND	0.14	ND	ND	0.19	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE 1988
 END DATE 1991/12
 ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : ROMNEY TWP-WHEATLY VILL
 PLANT : WHEATLY WPCP
 WORKS NUMBER : 110003246
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 : 2.75 (1000 M3)
 DESIGN CAPACITY : 2,328

REGION : SOUTHWEST
 DISTRICT : KENT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE ERIE
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,328

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.78	0.64	0.78	1.30	1.31	1.04	0.91	0.90	1.02	1.05	1.02	0.82	0.96	
BOD5 INFLUENT (MG/L)	172.0	213.0	183.0	355.0	437.0	309.0	324.0	643.0	465.0	805.0	381.0	292.0	381.6	
EFFLUENT (MG/L)	4.2	3.8	2.3	4.2	3.6	2.2	1.6	1.7	2.9	2.7	2.8	1.6	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.27	2.43	1.79	5.46	4.71	2.28	1.45	1.53	2.95	2.83	2.85	1.31	2.69	
LOADING LIMIT (KG/D)													68.80	
SUSPENDED SOLIDS INFLUENT (MG/L)	204.0	200.0	301.0	347.0	298.0	211.0	295.0	360.0	375.0	252.0	195.0	154.0	266.0	
EFFLUENT (MG/L)	12.4	10.3	7.4	9.2	6.8	4.1	5.2	3.3	6.8	6.4	8.1	6.5	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.67	6.59	5.77	11.96	8.90	4.26	4.73	2.97	6.93	6.72	8.26	5.33	6.91	
LOADING LIMIT (KG/D)													68.80	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	10.1	9.8	8.3	12.3	10.9	11.3	11.9	10.6	12.0	20.2	9.7	10.9	11.5	
EFFLUENT (MG/L)	0.5	0.4	0.3	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.39	0.25	0.23	0.65	0.52	0.31	0.36	0.36	0.51	0.52	0.40	0.32	0.38	
LOADING LIMIT (KG/D)													2.75	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARM	CRITERIA	LOADING	CONC	COMPLIES WITH
BOD	25.0 MG/L	68.80 KG/D	YES	YES
SS	25.0 MG/L	68.80 KG/D	YES	YES
TP	1.0 MG/L	2.75 KG/D	YES	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988

END DATE 1992/12

ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ROMNEY TWP-WHEATLY VILL
 PLANT : WHEATLY WPCP
 WORKS NUMBER : 110003246
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : KENT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE ERIE
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,328

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.78	0.64	0.78	1.30	1.31	1.04	0.91	0.90	1.02	1.05	1.02	0.82	0.96	
BOD5														
INFLUENT (MG/L)	172.0	213.0	183.0	355.0	437.0	309.0	324.0	643.0	465.0	805.0	381.0	292.0	381.6	
EFFLUENT (MG/L)	4.2	3.8	2.3	4.2	3.6	2.2	1.6	1.7	2.9	2.7	2.8	1.6	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.27	2.43	1.79	5.46	4.71	2.28	1.45	1.53	2.95	2.83	2.85	1.31	2.69	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	204.0	200.0	301.0	347.0	298.0	211.0	295.0	360.0	375.0	252.0	195.0	154.0	266.0	
EFFLUENT (MG/L)	12.4	10.3	7.4	9.2	6.8	4.1	5.2	3.3	6.8	6.4	8.1	6.5	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.67	6.59	5.77	11.96	8.90	4.26	4.73	2.97	6.93	6.72	8.26	5.33	6.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	10.1	9.8	8.3	12.3	10.9	11.3	11.9	10.6	12.0	20.2	9.7	10.9	11.5	
EFFLUENT (MG/L)	0.5	0.4	0.3	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.39	0.25	0.23	0.65	0.52	0.31	0.36	0.36	0.51	0.52	0.40	0.32	0.38	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988
 END DATE 1992/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SARNIA
PLANT : SARNIA WPCP
WORKS NUMBER : 120000907
TREATMENT : PRIMARY

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. CLAIR RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 64,475

DESIGN CAPACITY : 65.91 (1000 M3)

REMOVAL - CONTINUOUS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	34.19	32.47	37.19	38.68	36.53	39.03	ND	35.99	ND	ND	35.02	31.66	35.64	
BOD5														
INFLUENT (MG/L)	174.0	155.0	130.0	169.0	125.0	134.0	107.0	ND	104.0	174.0	178.0	199.0	149.9	
EFFLUENT (MG/L)	64.0	52.0	36.0	75.0	46.0	51.0	48.0	ND	43.0	68.0	76.0	98.0	59.7	
LOADING (KG/D)	2188.16	1688.44	1338.84	2901.00	1680.38	1990.53	ND	ND	ND	2661.52	3102.68		2127.71	
PERCENT REMOVAL	63	66	72	56	63	62	55		59	61	57	51	60	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	146.0	169.0	152.0	132.0	146.0	107.0	94.0	125.0	127.0	177.0	177.0	252.0	150.3	
EFFLUENT (MG/L)	27.0	24.0	22.0	19.0	24.0	19.0	20.0	16.0	15.0	19.0	22.0	30.0	21.4	
LOADING (KG/D)	923.13	779.28	818.18	734.92	876.72	741.57	ND	575.84	ND	ND	770.44	949.80	762.70	
PERCENT REMOVAL	82	86	86	86	84	82	79	87	88	89	88	88	86	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	ND	ND	4.6	5.7	4.3	4.0	4.8	5.0	7.0	5.6	8.6	5.5	
EFFLUENT (MG/L)	1.1*	ND	ND	0.8	0.9	0.7	0.7	0.7	0.7	0.8	0.9	1.0	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	37.60	ND	ND	30.94	32.87	27.32	ND	25.19	ND	ND	31.51	31.66	28.51	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 50%	YES
SS 70%	YES
TP 1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SEAFORTH
 PLANT : SEAFORTH LAGOON
 WORKS NUMBER : 110001177
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.01 (1000 M3)
 :
 REGION : SOUTHWEST
 DISTRICT : HURON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CRESSWELL CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,153

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.76	1.40	1.80	1.97	1.41	1.32	1.02	0.91	0.88	0.87	1.28	1.13	1.31	
LAGOON DISCHARGE	ND	39.20	55.78	46.54	ND	ND	ND	ND	ND	ND	47.54	ND	47.27	
BOD5														
INFLUENT (MG/L)	207.0	236.0	107.0	165.0	184.0	252.0	368.0	343.0	325.0	175.0	156.0	425.0	245.3	
EFFLUENT (MG/L)	ND	23.9	41.9	34.5	ND	ND	ND	ND	ND	2.7	12.4	ND	23.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	33.46	75.42	67.96	ND	ND	ND	ND	ND	2.34	15.87	ND	30.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	181.0	354.0	168.0	121.0	151.0	175.0	246.0	292.0	306.0	196.0	119.0	213.0	210.2	
EFFLUENT (MG/L)	ND	46.5	22.2	16.9	ND	ND	ND	ND	ND	3.3	14.3	ND	20.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
LOADING (KG/D)	ND	65.10	39.96	33.29	ND	ND	ND	ND	ND	2.87	18.30	ND	26.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	5.0	3.6	3.0	4.6	4.3	6.5	7.3	7.2	6.4	3.3	4.5	4.9	
EFFLUENT (MG/L)	ND	0.6	0.5	0.5	ND	ND	ND	ND	ND	0.4	0.4	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	0.84	0.90	0.98	ND	ND	ND	ND	ND	0.34	0.51	ND	0.66	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE 1988
 END DATE 1991/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: SOMBRA	REGION	: SOUTHWEST
PLANT	: PORT LAMBTON LAGOON	DISTRICT	: LAMBTON
WORKS NUMBER	: 110001694	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	: MARSHY CK. TO ST. CLAIR R.
	: PHOSPHORUS REMOVAL - BATCH	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 1.08 (1000 M3)	POPULATION SERVED	: 900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.38	0.36	0.41	0.44	0.37	0.45	0.38	0.39	0.60	0.42	0.45	0.34	0.42	
LAGOON DISCHARGE	ND	ND	ND	84.68	ND	ND	ND	ND	ND	16.49	40.91	ND	47.36	
BOD5														
INFLUENT (MG/L)	ND	111.0	103.0	99.0	131.0	114.0	167.0	135.0	84.0	115.0	119.0	187.0	124.1	
EFFLUENT (MG/L)	ND	ND	ND	1.5	ND	ND	ND	ND	ND	0.3	3.0	ND	1.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	0.66	ND	ND	ND	ND	ND	0.12	1.35	ND	25.0	
LOADING (KG/D)	ND	ND	ND	0.66	ND	ND	ND	ND	ND	0.12	1.35	ND	0.67	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	137.0	123.0	82.0	141.0	103.0	132.0	145.0	96.0	121.0	90.0	144.0	119.5	
EFFLUENT (MG/L)	ND	ND	ND	13.5	ND	ND	ND	ND	ND	3.9	13.7	ND	10.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	5.94	ND	ND	ND	ND	ND	1.63	6.16	ND	25.0	
LOADING (KG/D)	ND	ND	ND	5.94	ND	ND	ND	ND	ND	1.63	6.16	ND	4.37	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	6.7	6.8	12.4	7.7	7.6	8.1	7.6	4.6	8.0	6.7	8.0	7.7	
EFFLUENT (MG/L)	ND	ND	ND	0.2	ND	ND	ND	ND	ND	0.1	0.2	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.08	ND	ND	ND	ND	ND	0.04	0.09	ND	0.08	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988/02	1990/01	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

SUMMARY	COMPLIES WITH CONC
PARAM CRITERIA	YES
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: SOMBRA	REGION	: SOUTHWEST
PLANT	: SOMBRA LAGOON	DISTRICT	: LANBTON
WORKS NUMBER	: 110001685	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	: ST. CLAIR RIVER
	: PHOSPHORUS REMOVAL - BATCH	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.96 (1000 M3)	POPULATION SERVED	: 641

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.19	0.17	0.22	0.21	0.18	0.20	0.17	0.16	0.24	0.18	0.20	0.17	0.19	
LAGOON DISCHARGE	ND	ND	ND	59.69	ND	ND	ND	ND	ND	ND	ND	ND	59.69	
BOD5														
INFLUENT (MG/L)	ND	127.0	106.0	69.0	200.0	103.0	132.0	258.0	106.0	238.0	96.0	109.0	140.4	
EFFLUENT (MG/L)	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	2.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	0.42	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	81.0	85.0	62.0	172.0	74.0	118.0	323.0	82.0	235.0	46.0	56.0	121.3	
EFFLUENT (MG/L)	ND	ND	ND	12.1	ND	ND	ND	ND	ND	ND	ND	ND	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	2.54	ND	ND	ND	ND	ND	ND	ND	ND	2.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	7.1	5.8	4.2	9.4	7.6	8.4	7.1	5.9	8.3	6.3	6.7	7.0	
EFFLUENT (MG/L)	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	
LOADING (KG/D)	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND	0.02	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02

END DATE 1990/01

ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SOUTHAMPTON
: SOUTHAMPTON WPCP
: 110001453
: OXIDATION DITCH
:

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUGEEN R.
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,866

DESIGN CAPACITY : 3.04 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.29	1.05	1.35	1.42	1.18	1.29	1.28	1.20	0.94	0.90	1.05	0.97	1.16	
BOD5														
INFLUENT (MG/L)	55.0	41.0	62.0	63.0	53.0	59.0	75.0	91.0	73.0	82.0	70.0	60.0	65.3	
EFFLUENT (MG/L)	4.4	3.7	4.5	3.5	4.6	4.0	2.0	2.0	1.4	2.7	4.3	3.7	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.67	3.86	6.07	4.97	5.42	5.16	2.56	2.40	1.31	2.43	4.51	3.58	3.94	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	74.0	108.0	98.0	66.0	67.0	120.0	134.0	95.0	146.0	108.0	125.0	106.2	
EFFLUENT (MG/L)	6.4	3.9	4.6	5.7	8.4	3.6	3.9	2.1	2.4	2.8	7.7	5.2	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.25	4.09	6.21	8.09	9.91	4.64	4.99	2.52	2.25	2.52	8.08	5.04	5.45	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	3.5	3.5	2.7	3.2	4.3	5.7	5.4	5.1	4.0	3.8	3.3	4.0	
EFFLUENT (MG/L)	2.1	2.6	1.7	1.9	3.2	3.3	4.1	3.9	3.2	4.2	3.5	2.4	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.70	2.73	2.29	2.69	3.77	4.25	5.24	4.68	3.00	3.78	3.67	2.32	3.48	

NOTES:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES

START DATE 1988
END DATE 1991/12
COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST EDMUNDS
PLANT : TOBERMORY LAGOON
WORKS NUMBER : 120001577
TREATMENT : AERATED CELL PLUS LAGOON
: EXFILTRATION LAGOON

DESIGN CAPACITY : 0.16 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC. TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST MARYS
 PLANT : ST MARYS WPCP
 WORKS NUMBER : 110001275
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 3.63 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : PERTH
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : THAMES RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,568

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.80	4.46	5.16	5.34	4.48	4.59	ND	4.01	3.89	3.86	4.18	4.26	4.46	
BOD5														
INFLUENT (MG/L)	185.0	324.0	268.0	156.0	186.0	240.0	ND	178.0	222.0	211.0	164.0	143.0	207.0	
EFFLUENT (MG/L)	21.6	5.4	5.1	10.1	4.5	12.4	ND	6.8	3.4	3.0	12.0	4.2	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	103.68	24.08	26.31	53.93	20.16	56.91	ND	27.26	13.22	11.58	50.16	17.89	35.68	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	308.0	323.0	179.0	111.0	136.0	226.0	ND	161.0	162.0	131.0	96.0	143.0	179.6	
EFFLUENT (MG/L)	8.1	3.8	6.2	14.4	6.9	11.3	ND	8.7	6.7	8.5	6.4	9.1	8.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	38.88	16.94	31.99	76.89	30.91	51.86	ND	34.88	26.06	32.81	26.75	38.76	36.57	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	8.7	6.7	4.9	6.7	7.1	ND	5.7	7.7	6.7	5.6	5.7	6.6	
EFFLUENT (MG/L)	0.7	0.4	0.4	0.3	0.2	0.6	ND	0.3	0.3	0.4	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.36	1.78	2.06	1.60	0.89	2.75	ND	1.20	1.16	1.54	1.67	1.70	1.78	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE 1988
 END DATE 1990/02
 ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY	: ST THOMAS	REGION	: SOUTHWEST
PLANT	: ST THOMAS WPCP	DISTRICT	: ELGIN
WORKS NUMBER	: 120001112	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: KETTLE CREEK
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
DESIGN CAPACITY	: 40.91 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 26,218

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	16.89	16.28	20.46	17.16	19.70	15.25	14.96	13.64	12.61	14.70	12.46	15.83	
BOD5														
INFLUENT (MG/L)	107.0	176.0	113.0	113.0	136.0	51.0	55.0	86.0	113.0	1,436.0	105.0	75.0	213.8	
EFFLUENT (MG/L)	9.3	26.1	10.9	7.4	4.8	3.5	4.4	2.1	3.4	2.4	3.8	3.7	6.8	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	ND	440.82	177.45	151.40	82.36	68.95	67.10	31.41	46.37	30.26	55.86	46.10	107.64	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	504.0	92.0	165.0	123.0	40.0	59.0	133.0	159.0	3,865.0	93.0	38.0	449.8	
EFFLUENT (MG/L)	8.4	19.4	19.9	7.6	3.8	4.8	4.7	4.2	4.9	6.4	3.2	3.7	7.6	
CONCENTRATION LIMIT (MG/L)													20.0	
LOADING (KG/D)	ND	327.66	323.97	155.49	65.20	94.56	71.67	62.83	66.83	80.70	47.04	46.10	120.31	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	5.9	22.0	6.5	4.6	5.2	4.3	5.2	5.2	6.2	52.5	6.0	4.6	10.7	
EFFLUENT (MG/L)	0.8	1.0	1.0	0.8	1.1	0.8	1.0	1.2	1.0	1.1	1.0	0.7	1.0	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	ND	16.89	16.28	16.36	18.87	15.76	15.25	17.95	13.64	13.87	14.70	8.72	15.83	
LOADING LIMIT (KG/D)														

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED ANNUALLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY			
PARAM	CRITERIA	LOADING	COMPLIES WITH CONC LOADING
BOD	15.0 MG/L	NA	YES
SS	20.0 MG/L	NA	YES
TP	1.0 MG/L	NA	YES

REMEDIAL MEASURES

SLUDGE DISPOSAL/REMOVAL - UPGRADING WASTE DISPOSAL SITE

START DATE END DATE COMPLIANCE

ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: ST THOMAS	REGION	: SOUTHWEST
PLANT	: ST THOMAS WPCP	DISTRICT	: ELGIN
WORKS NUMBER	: 120001112	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: KETTLE CREEK
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 40.91 (1000 M3)	POPULATION SERVED	: 28,218

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	16.89	16.28	20.46	17.16	19.70	15.25	14.96	13.64	12.61	14.70	12.46	15.83	
BOD5														
INFLUENT (MG/L)	107.0	176.0	113.0	113.0	136.0	51.0	55.0	86.0	113.0	1,436.0	105.0	75.0	213.8	
EFFLUENT (MG/L)	9.3	26.1	10.9	7.4	4.8	3.5	4.4	2.1	3.4	2.4	3.8	3.7	6.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	440.82	177.45	151.40	82.36	68.95	67.10	31.41	46.37	30.26	55.86	46.10	107.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	504.0	92.0	165.0	123.0	40.0	59.0	133.0	159.0	3,865.0	93.0	30.0	449.8	
EFFLUENT (MG/L)	8.4	19.4	19.9	7.6	3.8	4.8	4.7	4.2	4.9	6.4	3.2	3.7	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	327.66	323.97	155.49	65.20	94.56	71.67	62.83	66.83	80.70	47.04	46.10	120.31	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	22.0	6.5	4.6	5.2	4.3	5.2	5.2	6.2	52.5	6.0	4.6	10.7	
EFFLUENT (MG/L)	0.8	1.0	1.0	0.8	1.1*	0.8	1.0	1.2*	1.0	1.1*	1.0	0.7	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	16.89	16.28	16.36	18.87	15.76	15.25	17.95	13.64	13.87	14.70	8.72	15.83	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

SLUDGE DISPOSAL/REMOVAL - UPGRADING WASTE DISPOSAL SITE

START DATE END DATE
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STEPHEN
 PLANT : GRAND BEND LAGOON
 WORKS NUMBER : 110002452
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.89 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : HURON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : AUSABLE RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,310

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.70	0.69	0.56	0.90	1.07	1.35	1.79	1.64	1.15	0.96	0.90	0.73	1.04	
LAGOON DISCHARGE	ND	ND	ND	ND	189.95	ND	ND	ND	ND	90.47	ND	ND	140.21	
BOD5														
INFLUENT (MG/L)	117.0	101.0	141.0	86.0	ND	76.0	200.0	205.0	ND	404.0	70.0	89.0	148.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.9	ND	ND	ND	ND	5.5	ND	ND	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	7.38	ND	ND	ND	ND	5.28	ND	ND	6.45	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	208.0	67.0	193.0	63.0	ND	109.0	125.0	146.0	ND	117.0	63.0	43.0	113.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	50.3	ND	ND	ND	ND	22.6	ND	ND	36.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	54.35	ND	ND	ND	ND	21.69	ND	ND	38.17	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	5.3	5.4	5.1	ND	4.5	6.7	11.4	ND	5.6	3.7	4.2	5.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.2	ND	ND	ND	ND	0.2	ND	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.21	ND	ND	ND	ND	0.19	ND	ND	0.21	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE 1990/04

1982 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STEPHEN REGION : SOUTHWEST
 PLANT : HURON PARK WPCP DISTRICT : HURON
 WORKS NUMBER : 110003488 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : AUSABLE RIVER
 : MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 : POPULATION SERVED : 1,400
 DESIGN CAPACITY : 1.81 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.28	1.11	1.41	1.45	1.12	1.05	0.92	0.88	0.89	1.13	1.65	1.23	1.18	
BOD5														
INFLUENT (MG/L)	92.0	81.0	85.0	97.0	64.0	40.0	57.0	63.0	83.0	76.0	83.0	69.0	74.2	
EFFLUENT (MG/L)	5.9	6.1	5.7	3.0	9.8	12.8	6.8	2.4	2.7	5.6	2.0	2.0	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.55	6.77	8.03	4.35	10.97	13.44	6.25	2.11	2.40	6.32	3.30	2.46	6.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	62.0	67.0	81.0	75.0	53.0	51.0	45.0	104.0	77.0	142.0	94.0	50.0	75.1	
EFFLUENT (MG/L)	5.8	6.1	4.9	3.0	7.4	11.3	11.3	5.8	5.9	5.8	3.6	6.3	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.42	6.77	6.90	4.35	8.28	11.86	10.39	5.10	5.25	6.55	5.94	7.74	7.55	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.0	2.8	2.8	2.8	2.6	3.3	3.1	3.0	3.7	3.7	3.1	3.6	3.1	
EFFLUENT (MG/L)	1.7	2.5	1.6	1.6	1.7	2.1	2.5	2.3	3.3	2.4	2.6	2.3	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.17	2.77	2.25	2.32	1.90	2.20	2.30	2.02	2.93	2.71	4.29	2.82	2.60	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY

PLANT : STRATFORD

WORKS NUMBER : STRATFORD WPCP

TREATMENT : 110000702

REGION : SOUTHWEST

OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT

WATERCOURSE : AVON RIVER

MINOR BASIN : ERIE

MAJOR BASIN : GREAT LAKES

POPULATION SERVED : 26,078

DESIGN CAPACITY

: 27.27 (1000 M3)

REGION : SOUTHWEST

DISTRICT : PERTH

OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT

WATERCOURSE : AVON RIVER

MINOR BASIN : ERIE

MAJOR BASIN : GREAT LAKES

POPULATION SERVED : 26,078

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	23.62	20.08	26.25	27.86	21.15	24.19	17.16	17.08	16.90	17.53	25.42	17.96	21.27	
BOD5														
INFLUENT (MG/L)	80.0	97.0	51.0	73.0	91.0	63.0	77.0	78.0	97.0	117.0	80.0	90.0	82.8	
EFFLUENT (MG/L)	8.7	12.2	7.2	10.2	11.4	16.0	16.8	15.0	10.0	11.1	12.1	8.1	11.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	205.49	244.97	189.00	284.17	241.11	387.04	288.28	256.20	169.00	194.58	307.58	145.47	246.73	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	70.0	99.0	75.0	65.0	98.0	71.0	101.0	102.0	102.0	119.0	70.0	56.0	85.7	
EFFLUENT (MG/L)	2.6	2.8	6.3	1.8	3.5	3.7	3.2	2.7	2.3	3.0	2.4	3.7	3.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	61.41	56.22	165.37	50.14	74.02	89.50	54.91	46.11	38.87	52.59	61.00	66.45	68.06	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	5.7	2.8	4.7	4.8	4.1	5.0	5.0	5.7	5.5	4.0	5.2	4.7	
EFFLUENT (MG/L)	0.4	0.9	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	9.44	18.07	21.00	5.57	4.23	4.83	3.43	3.41	3.38	3.50	10.16	10.77	8.51	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

COMPLIES

PARAM CRITERIA WITH CONC

BOD 25.0 MG/L YES

SS 25.0 MG/L YES

TP 1.0 MG/L YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

ANTICIPATED

START DATE END DATE COMPLIANCE

1988 1990/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STRATHROY LAGOON REGION : SOUTHWEST
 PLANT : STRATHROY LAGOON DISTRICT : MIDDLESEC
 WORKS NUMBER : 120000827 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : AERATED LAGOON WATERCOURSE : SYDENHAM RIVER
 : CONTINUOUS DISCHARGE MINOR BASIN : ERIE
 : PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 5.18 (1000 M3) POPULATION SERVED : 9,051

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.54	2.30	2.40	2.49	2.24	2.20	3.48	2.43	2.64	4.05	2.34	1.93	2.59	
LAGOON DISCHARGE	211.88	128.85	134.45	74.65	69.30	65.92	ND	ND	29.03	51.23	55.06	ND	91.24	
BOD5 INFLUENT (MG/L)	109.0	124.0	115.0	90.0	150.0	129.0	92.0	113.0	217.0	144.0	104.0	156.0	128.6	
EFFLUENT (MG/L)	11.9	11.4	8.9	4.1	14.6	21.1	ND	ND	5.6	8.6	6.3	11.1	10.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	30.22	26.22	21.36	10.20	32.70	46.42	ND	ND	14.78	34.83	14.74	21.42	26.94	
SUSPENDED SOLIDS INFLUENT (MG/L)	237.0	358.0	154.0	126.0	173.0	194.0	295.0	186.0	207.0	232.0	147.0	147.0	204.7	
EFFLUENT (MG/L)	23.3	14.3	8.1	8.4	26.3	50.6	ND	ND	15.3	10.5	6.7	7.0	17.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	59.18	32.89	19.44	20.91	58.91	111.32	ND	ND	40.39	42.52	15.67	13.51	44.29	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	5.3	6.1	5.6	4.7	5.8	6.3	5.4	5.5	9.9	6.2	5.7	7.8	6.2	
EFFLUENT (MG/L)	0.4	0.5	0.3	0.2	1.0	1.2	ND	ND	1.3	0.5	0.4	0.5	0.6	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.01	1.15	0.72	0.49	2.24	2.64	ND	ND	3.43	2.02	0.93	0.96	1.55	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW
 EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED
 EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED

START DATE END DATE ANTICIPATED COMPLIANCE

1989/04 1991 1991/06
 1990/05 1990/07 1990/07
 1988/09 1989/03 1989/03

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: THAMESVILLE
: THAMESVILLE WPCP
: 110002470
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 0.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 985

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.22	0.21	0.22	0.23	0.25	0.24	0.24	0.23	0.24	0.24	0.25	0.23	
BOD5														
INFLUENT (MG/L)	103.0	139.0	127.0	135.0	114.0	184.0	71.0	125.0	155.0	196.0	142.0	232.0	143.6	
EFFLUENT (MG/L)	12.7	5.9	6.3	4.0	4.5	2.3	1.3	4.2	2.6	2.1	2.8	4.3	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.92	1.29	1.32	0.86	1.03	0.57	0.31	1.00	0.64	0.50	0.67	1.07	1.01	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	120.0	107.0	89.0	92.0	98.0	85.0	110.0	148.0	143.0	79.0	55.0	100.1	
EFFLUENT (MG/L)	13.9	7.6	7.2	11.4	8.7	3.5	6.0	5.5	5.5	5.5	6.2	9.9	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.19	1.67	1.51	2.50	2.00	0.87	1.44	1.32	1.26	1.32	1.48	2.47	1.75	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.0	9.1	8.4	6.8	8.0	3.8	5.3	5.6	7.1	9.0	6.9	6.9	7.1	
EFFLUENT (MG/L)	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.7	0.7	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.11	0.11	0.08	0.08	0.09	0.10	0.09	0.14	0.13	0.16	0.16	0.12	0.12	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED

ANTICIPATED

START DATE END DATE COMPLIANCE

1989/10 1989/11 1989/11

MUNICIPALITY	:	THEDFORD	
PLANT	:	THEDFORD LAGOON	
WORKS NUMBER	:	110002336	
TREATMENT	:	CONVENTIONAL LAGOON	ANNUAL
	:		
DESIGN CAPACITY	:		0.48 (1000 M3)

REGION	: SOUTHWEST
DISTRICT	: LAMBTON
OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
WATERCOURSE	: DECKER CREEK
MINOR BASIN	: HURON
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 675

[illegible]

PARAM	CRITERIA		COMPLIES
	30.0 MG/L	40.0 MG/L	
BOD	YES	YES	NA
SS	YES	YES	NA
TP	NA	NA	NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 M - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THORNBURY REGION : SOUTHWEST
 PLANT : THORNBURY LAGOON DISTRICT : GREY
 WORKS NUMBER : 110001890 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : BEAVER RIVER
 : SUMMER STORAGE MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 1.72 (1000 M3) POPULATION SERVED : 1,764

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.59	1.26	1.87	1.78	1.68	1.71	1.28	1.15	1.07	1.08	1.25	1.26	1.42	
LAGOON DISCHARGE	49.27	35.13	59.17	126.73	147.93	ND	ND	ND	ND	33.51	37.42	39.19	66.04	
BOD5														
INFLUENT (MG/L)	119.0	99.0	60.0	88.0	252.0	38.0	24.0	54.0	14.0	32.0	37.0	25.0	70.2	
EFFLUENT (MG/L)	3.1	3.9	9.1	12.4	7.8	ND	ND	ND	ND	1.8	4.5	2.3	5.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.92	4.91	17.01	22.07	13.10	ND	ND	ND	ND	1.94	5.62	2.89	7.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	80.0	90.0	54.0	194.0	42.0	21.0	29.0	10.0	36.0	42.0	16.0	60.3	
EFFLUENT (MG/L)	2.3	7.1	7.4	29.0	17.8	ND	ND	ND	ND	2.9	6.4	3.4	9.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	3.65	8.94	13.83	51.62	29.90	ND	ND	ND	ND	3.13	8.00	4.28	13.49	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	2.9	3.5	ND	2.8	2.9	1.9	3.0	1.3	2.1	2.5	1.3	2.4	
EFFLUENT (MG/L)	1.7	1.8	1.9	1.6	1.7	ND	ND	ND	ND	2.9	0.8	0.9	1.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.70	2.26	3.55	2.84	2.85	ND	ND	ND	ND	3.13	1.00	1.13	2.41	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE
 START DATE 1988
 END DATE 1991/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: TILBURY
: TILBURY LAGOON
: 120000916

: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 2.53 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TILBURY CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.16	4.07	5.00	5.46	6.46	4.00	4.02	4.02	ND	ND	ND	ND	4.65	
LAGOON DISCHARGE	130.00	114.00	193.00	385.00	539.00	ND	ND	ND	ND	ND	ND	ND	272.20	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

COMPLIES
WITH CONC
CRITERIA
BOD 30.0 MG/L INSUFFICIENT DATA
SS 40.0 MG/L INSUFFICIENT DATA
TP 1.0 MG/L INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: TILBURY NORTH	REGION	: SOUTHWEST
PLANT	: STONEY POINT P.V. LAGOON	DISTRICT	: ESSEX
WORKS NUMBER	: 110002345	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	: LITTLE CREEK
	: PHOSPHORUS REMOVAL - BATCH	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.95 (1000 M3)	POPULATION SERVED	: 1,305

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.74	0.58	0.62	0.88	0.71	1.17	1.10	0.69	0.58	0.53	0.60	0.49	0.72	
LAGOON DISCHARGE	ND	ND	ND	ND	226.94	ND	ND	ND	ND	ND	126.52	ND	176.73	
BOD5														
INFLUENT (MG/L)	39.0	65.0	67.0	38.0	40.0	33.0	19.0	36.0	64.0	70.0	83.0	73.0	52.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	8.2	ND	ND	ND	ND	ND	3.7	ND	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	5.82	ND	ND	ND	ND	ND	2.22	ND	4.32	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	52.0	71.0	46.0	29.0	34.0	51.0	26.0	31.0	61.0	53.0	70.0	31.0	46.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	34.1	ND	ND	ND	ND	ND	16.1	ND	25.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	24.21	ND	ND	ND	ND	ND	9.66	ND	18.07	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.0	4.7	3.0	3.1	2.2	2.4	1.8	3.6	4.5	4.1	5.0	4.4	3.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	0.4	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	
LOADING (KG/D)	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	0.24	ND	0.29	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			COMPLIES
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	NO	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: TILBURY WEST
: COMBER LAGOON
: 110001676
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GOV'T DR NO.1 TO BIG CK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 780

DESIGN CAPACITY : 0.40 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.35	0.29	0.35	0.46	0.34	0.39	0.37	0.25	0.27	0.29	0.30	0.27	0.33	
LAGOON DISCHARGE	ND	ND	ND	ND	80.95	ND	ND	ND	ND	ND	41.08	ND	61.02	
BOD5														
INFLUENT (MG/L)	73.0	116.0	118.0	71.0	177.0	105.0	117.0	158.0	123.0	107.0	390.0	127.0	140.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	5.2	ND	5.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	2.21	ND	ND	ND	ND	ND	1.56	ND	1.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	118.0	103.0	56.0	142.0	163.0	133.0	142.0	114.0	90.0	495.0	44.0	141.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.0	ND	ND	ND	ND	ND	8.9	ND	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	2.04	ND	ND	ND	ND	ND	2.67	ND	2.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	7.5	6.4	4.5	8.8	8.0	7.8	7.8	7.4	6.2	12.1	5.6	7.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	0.3	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND	0.09	ND	0.07	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
END DATE 1990/01
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: TILLSONBURG	REGION	: SOUTHWEST
PLANT	: TILLSONBURG WPCP	DISTRICT	: OXFORD
WORKS NUMBER	: 110000757	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: BIG OTTER CREEK
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 5.91 (1000 M3)	POPULATION SERVED	: 11,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.43	4.20	4.25	4.69	4.45	4.51	4.18	4.22	4.34	4.22	4.62	4.13	4.35	
BOD5														
INFLUENT (MG/L)	137.0	113.0	115.0	149.0	143.0	144.0	138.0	101.0	121.0	151.0	123.0	167.0	133.5	
EFFLUENT (MG/L)	2.9	2.9	10.4	4.5	2.4	9.7	1.0	0.8	2.2	2.7	2.3	3.4	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.84	12.18	44.20	21.10	10.68	43.74	4.18	3.37	9.54	11.39	10.62	14.04	16.53	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	162.0	160.0	193.0	145.0	214.0	159.0	167.0	174.0	167.0	260.0	155.0	233.0	182.4	
EFFLUENT (MG/L)	9.5	10.4	11.7	9.9	9.4	5.6	5.2	3.9	5.7	6.3	5.8	8.8	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.08	43.68	49.72	46.43	41.83	25.25	21.73	16.45	24.73	26.58	26.79	36.34	33.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	6.3	5.4	ND	6.4	7.6	7.3	7.9	6.9	8.3	7.3	6.8	7.1	
EFFLUENT (MG/L)	0.7	0.8	0.8	0.9	0.6	0.8	0.6	0.7	0.7	0.6	0.8	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.10	3.36	3.40	4.22	2.67	3.60	2.50	2.95	3.03	2.53	3.69	2.89	3.05	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TUCKERSMITH
 PLANT : VAN ASTRA WPCP
 WORKS NUMBER : 110003013
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 1.40 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : HURON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MUN DRAIN TO BAYFIELD R.
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 770

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.88	0.58	0.86	0.84	0.68	0.61	0.43	0.40	0.42	0.51	0.86	0.59	0.64	
BOD5														
INFLUENT (MG/L)	40.0	110.0	74.0	39.0	74.0	70.0	109.0	151.0	199.0	59.0	44.0	71.0	86.7	
EFFLUENT (MG/L)	7.1	4.4	3.6	4.3	2.5	3.8	2.2	0.1	2.6	1.8	9.3	8.9	4.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.24	2.55	3.09	3.61	1.70	2.31	0.94	0.04	1.09	0.91	7.99	5.25	2.69	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	49.0	132.0	90.0	39.0	67.0	110.0	120.0	243.0	380.0	77.0	40.0	61.0	117.3	
EFFLUENT (MG/L)	12.2	5.2	6.4	10.0	4.1	8.6	5.1	3.8	4.9	4.6	18.5	14.1	8.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.73	3.01	5.50	8.40	2.78	5.24	2.19	1.52	2.05	2.34	15.91	8.31	5.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	4.7	4.2	2.9	3.8	4.9	5.3	6.7	8.6	3.4	2.7	4.2	4.5	
EFFLUENT (MG/L)	0.5	0.2	0.3	0.4	0.3	0.3	0.2	0.1	0.2	0.2	0.7	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.44	0.11	0.25	0.33	0.20	0.18	0.08	0.04	0.08	0.10	0.60	0.29	0.19	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	YES	NO
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES
 COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

REMEDIAL MEASURES
 COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE 1990/01
 END DATE 1992/12

ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALKERTON
 PLANT : WALKERTON WPCP
 WORKS NUMBER : 120001489
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 7.54 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : SAUGEEN RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,591

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.50	4.87	6.54	5.99	5.22	5.43	4.66	4.21	4.33	5.16	6.12	5.91	5.25	
BOD5 INFLUENT (MG/L)	195.0	189.0	184.0	195.0	358.0	230.0	355.0	298.0	329.0	277.0	252.0	364.0	268.8	
EFFLUENT (MG/L)	5.9	9.0	8.8	12.7	13.4	8.0	4.7	4.6	4.9	7.9	7.0	5.8	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	26.55	43.83	57.55	76.07	69.94	43.44	21.90	19.36	21.21	40.76	42.84	34.27	40.43	
SUSPENDED SOLIDS INFLUENT (MG/L)	182.0	166.0	128.0	122.0	156.0	150.0	295.0	208.0	270.0	149.0	241.0	142.0	184.1	
EFFLUENT (MG/L)	8.4	11.0	9.2	6.4	10.1	5.3	7.7	7.7	4.3	6.3	7.0	5.8	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	37.80	53.57	60.16	38.33	52.72	28.77	35.88	32.41	18.61	32.50	42.84	34.27	38.85	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	7.0	6.7	4.3	5.7	6.2	6.2	7.1	7.2	7.9	6.6	6.3	6.1	6.4	
EFFLUENT (MG/L)	0.9	1.0	1.0	1.0	0.8	0.7	0.6	0.7	0.8	0.7	0.7	1.0	0.8	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	4.05	4.87	6.54	5.99	4.17	3.80	2.79	2.94	3.46	3.61	4.28	5.91	4.20	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY

: WALLACEBURG

: WALLACEBURG WPCP

: 110000784

: CONVENTIONAL ACTIVATED SLUDGE

: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 6.81 (1000 M3)

REGION

: SOUTHWEST

: DISTRICT

: OPERATING AUTHORITY

: MINISTRY OF THE ENVIRONMENT

: WATERCOURSE

: SYDENHAM RIVER

: MINOR BASIN

: ERIE

: MAJOR BASIN

: GREAT LAKES

: POPULATION SERVED

: 10,056

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.72	5.93	6.36	7.18	6.48	7.34	5.94	5.85	6.86	6.54	7.86	6.01	6.51	
BOD5														
INFLUENT (MG/L)	85.0	98.0	105.0	98.0	101.0	97.0	74.0	98.0	91.0	91.0	93.0	83.0	92.8	
EFFLUENT (MG/L)	7.4	6.5	11.7	8.8	12.3	13.9	4.0	13.0	11.2	7.2	9.1	12.6	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.32	38.54	74.41	63.18	79.70	102.02	23.76	76.05	76.83	47.08	71.52	75.72	63.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	241.0	264.0	211.0	218.0	230.0	146.0	120.0	151.0	202.0	109.0	160.0	201.0	189.4	
EFFLUENT (MG/L)	9.7	9.8	6.3	8.8	14.9	13.5	4.9	7.3	4.1	4.7	4.2	17.5	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	55.48	58.11	40.06	63.18	96.55	99.09	29.10	42.70	28.12	30.73	33.01	105.17	57.29	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	4.2	9.1	8.3	4.5	4.3	3.9	5.5	5.5	5.8	4.4	5.2	5.5	
EFFLUENT (MG/L)	0.4	0.4	1.9M	0.8	0.5	0.8	0.4	0.6	0.5	0.9	0.6	1.6M	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.28	2.37	12.08	5.74	3.24	5.87	2.37	3.51	3.43	5.88	4.71	9.61	5.21	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

M - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY

COMPLIES

WITH CONC

BOD 25.0 MG/L YES

SS 25.0 MG/L YES

TP 1.0 MG/L NO

REMEDIAL MEASURES

COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS
FACILITY EXPANSION/UPGRADING - APPLICATION FOR FUNDING

START DATE END DATE ANTICIPATED
COMPLIANCE

1989 1990/12 1990/01

1988 1992/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WATFORD
 PLANT : WATFORD LAGOON
 WORKS NUMBER : 110001809
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.05 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : LAMBTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BEAR CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,467

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.53	0.48	0.55	0.56	0.49	0.51	0.44	0.46	0.54	0.53	0.65	0.54	0.52	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5	88.0	119.0	138.0	167.0	144.0	151.0	158.0	176.0	178.0	170.0	184.0	154.0	152.3	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.77	
LOADING (KG/D)														
SUSPENDED SOLIDS	83.0	83.0	90.0	125.0	124.0	103.0	60.0	110.0	158.0	92.0	86.0	72.0	98.8	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.62	
LOADING (KG/D)														
TOTAL PHOSPHOROUS	6.1	6.9	7.5	6.5	6.5	6.6	6.5	6.3	ND	6.4	7.3	8.5	6.8	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	
EFFLUENT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	
LOADING (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE
 START DATE 1988/02
 END DATE 1990/01
 ANTICIPATED COMPLIANCE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: WEST LORNE
: WEST LORNE LAGOON
: 110001337
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY

: 0.67 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ZOLLER DRAIN
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,367

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.58	ND	ND	0.62	0.53	0.66	0.49	0.44	0.48	0.49	0.56	0.47	0.54	
LAGOON DISCHARGE	ND	ND	ND	78.90	ND	ND	ND	ND	ND	104.35	ND	ND	91.63	
BOD5														
INFLUENT (MG/L)	162.0	122.0	246.0	112.0	208.0	126.0	138.0	126.0	101.0	136.0	152.0	150.0	148.3	
EFFLUENT (MG/L)	ND	ND	ND	9.2	ND	ND	ND	ND	ND	3.8	ND	ND	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	5.70	ND	ND	ND	ND	ND	1.86	ND	ND	3.51	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	144.0	88.0	266.0	98.0	13.0	107.0	111.0	101.0	186.0	103.0	148.0	93.0	121.5	
EFFLUENT (MG/L)	ND	ND	ND	16.1	ND	ND	ND	ND	ND	12.9	ND	ND	14.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	9.98	ND	ND	ND	ND	ND	6.32	ND	ND	7.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.8	5.5	10.5	2.3	3.6	6.2	6.7	6.7	8.0	5.8	5.3	6.7	6.3	
EFFLUENT (MG/L)	ND	ND	ND	0.3	ND	ND	ND	ND	ND	0.2	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)	ND	ND	ND	0.18	ND	ND	ND	ND	ND	0.09	ND	ND	0.16	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM COMPLIES
CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE 1988/02
END DATE 1990/01
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WESTMINSTER
 PLANT : SOUTHLAND PARK WPCP
 WORKS NUMBER : 120000818
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.26 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DINGMAN CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.09	
BOD5														
INFLUENT (MG/L)	112.0	105.0	106.0	143.0	126.0	107.0	123.0	132.0	103.0	109.0	75.0	108.0	112.4	
EFFLUENT (MG/L)	1.1	2.8	1.5	2.5	2.4	1.8	2.3	1.2	1.4	3.5	6.1	3.1	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.09	0.25	0.13	0.22	0.21	0.16	0.20	0.10	0.12	0.31	0.54	0.24	0.23	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	111.0	112.0	165.0	196.0	117.0	142.0	165.0	218.0	211.0	67.0	64.0	138.4	
EFFLUENT (MG/L)	0.5	2.4	1.6	4.8	3.8	2.5	1.5	1.8	1.6	4.7	7.2	4.4	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.04	0.21	0.14	0.43	0.34	0.22	0.13	0.16	0.14	0.42	0.64	0.35	0.28	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.1	6.9	10.2	5.3	8.0	4.6	7.9	5.8	6.8	6.6	6.6	4.9	6.9	
EFFLUENT (MG/L)	0.4	0.3	0.4	0.3	0.7	0.7	0.8	0.6	0.6	0.4	0.7	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.05	
LOADING (KG/D)	0.03	0.02	0.03	0.02	0.06	0.06	0.07	0.05	0.05	0.03	0.06	0.02	0.05	

SUMMARY
 COMPLIES WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

START DATE 1989
 END DATE 1992/12
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WESTMINSTER
 PLANT : WESTMINSTER WPCP
 WORKS NUMBER : 110000800
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 1.13 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DINGMAN CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.84	1.67	1.80	2.00	1.84	2.21	2.15	2.02	1.10	1.31	1.35	1.28	1.71	
BOD5 INFLUENT (MG/L)	96.0	146.0	142.0	72.0	101.0	100.0	145.0	208.0	146.0	94.0	173.0	129.0	129.3	
EFFLUENT (MG/L)	5.0	7.7	10.5	9.1	7.5	7.9	8.3	6.6	6.0	3.2	9.0	4.8	7.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.20	12.85	18.90	18.20	13.80	17.45	17.84	13.33	6.60	4.19	12.15	6.14	12.14	
SUSPENDED SOLIDS INFLUENT (MG/L)	175.0	187.0	112.0	52.0	116.0	88.0	130.0	154.0	181.0	79.0	160.0	75.0	125.8	
EFFLUENT (MG/L)	4.4	4.8	5.3	4.4	2.7	6.3	9.4	6.0	5.2	6.5	7.2	7.4	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.09	8.01	9.54	8.80	4.96	13.92	20.21	12.12	5.72	8.51	9.72	9.47	9.92	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	5.0	6.4	3.7	3.3	4.0	4.4	5.5	8.4	6.7	5.2	5.9	5.6	5.3	
EFFLUENT (MG/L)	0.3	0.3	0.2	0.3	0.6	0.5	0.7	0.6	0.6	0.2	0.2	0.2	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.55	0.50	0.36	0.60	1.10	1.10	1.50	1.21	0.66	0.26	0.27	0.25	0.68	

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WIARTON
 PLANT : WIARTON LAGOON
 WORKS NUMBER : 110000819
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 2.00 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : COLPOY BAY
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,119

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.19	1.56	2.49	2.30	1.66	1.63	1.28	1.43	1.56	1.57	2.41	1.86	1.83	
LAGOON DISCHARGE	67.81	43.59	77.32	68.84	51.35	48.88	39.73	44.24	46.82	48.76	72.24	57.79	55.61	
BOD5														
INFLUENT (MG/L)	64.0	78.0	58.0	74.0	78.0	72.0	96.0	103.0	88.0	89.0	44.0	67.0	75.9	
EFFLUENT (MG/L)	7.5	8.9	8.0	26.2	7.7	11.9	9.8	3.9	2.7	7.7	11.4	8.8	9.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	16.42	13.88	19.92	60.26	12.78	19.39	12.54	5.57	4.21	12.08	27.47	16.36	17.39	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	64.0	95.0	47.0	68.0	69.0	90.0	100.0	97.0	82.0	79.0	33.0	46.0	72.5	
EFFLUENT (MG/L)	3.0	6.4	6.0	29.9	13.2	9.2	7.0	6.4	9.3	12.7	14.2	11.3	10.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	6.57	9.98	14.94	68.77	21.91	14.99	8.96	9.15	14.50	19.93	34.22	21.01	19.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	5.0	2.4	3.5	4.4	4.6	4.9	4.0	4.8	4.4	2.2	3.3	3.9	
EFFLUENT (MG/L)	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.5	0.5	0.2	0.4	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.87	0.31	0.74	0.92	0.99	0.81	0.76	0.71	0.78	0.31	0.96	0.55	0.73	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES :
 COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE : 1990/01
 END DATE : 1992/12

ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: WINDSOR	REGION	: SOUTHWEST
PLANT	: LITTLE RIVER WPCP	DISTRICT	: ESSEX
WORKS NUMBER	: 120001096	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LITTLE RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 36.36 (1000 M3)	POPULATION SERVED	: 64,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	40.38	32.10	33.30	39.60	38.40	44.00	46.00	37.60	39.50	32.90	36.40	32.50	37.72	
BOD5														
INFLUENT (MG/L)	159.0	194.0	148.0	153.0	186.0	136.0	162.0	149.0	179.0	201.0	166.0	153.0	165.5	
EFFLUENT (MG/L)	8.0	14.0	13.0	6.0	9.0	6.0	6.0	5.0	5.0	4.0	6.0	13.0	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	323.04	449.40	432.90	237.60	345.60	264.00	276.00	188.00	197.50	131.60	218.40	422.50	297.99	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	181.0	222.0	199.0	240.0	316.0	199.0	286.0	290.0	362.0	277.0	225.0	177.0	247.8	
EFFLUENT (MG/L)	9.0	10.0	6.0	6.0	8.0	7.0	8.0	10.0	6.0	8.0	9.0	8.0	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	363.42	321.00	199.80	237.60	307.20	308.00	368.00	376.00	237.00	263.20	327.60	260.00	297.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	7.0	5.8	6.4	7.3	6.0	6.7	7.0	8.0	8.9	6.6	6.3	6.8	
EFFLUENT (MG/L)	0.4	0.4	0.2	0.2	0.4	0.4	0.6	0.7	0.2	0.4	0.4	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	16.15	12.84	6.66	7.92	15.36	17.60	27.60	26.32	7.90	13.16	14.56	9.75	15.09	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	
PARAM CRITERIA	COMPLIES WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE 1985/05

END DATE 1990/06

ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WINDSOR
 PLANT : WESTERLY WPCP
 WORKS NUMBER : 120001103
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 163.65 (1000 M3)

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : DETROIT RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 123,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	109.10	102.70	111.70	131.60	112.60	145.10	129.50	118.30	129.40	112.70	117.00	90.40	117.51	
BOD5														
INFLUENT (MG/L)	85.0	101.0	104.0	89.0	130.0	73.0	66.0	68.0	85.0	98.0	112.0	132.0	95.3	
EFFLUENT (MG/L)	33.0	41.0	34.0	35.0	43.0	29.0	29.0	30.0	44.0	57.0	44.0	50.0	39.1	
LOADING (KG/D)	3600.30	4210.70	3797.80	4606.00	4841.80	4207.90	3755.50	3549.00	5693.60	6423.90	5148.00	4520.00	4594.64	
PERCENT REMOVAL	61	59	67	61	67	60	56	56	48	42	61	62	59	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	128.0	151.0	104.0	163.0	118.0	95.0	99.0	81.0	124.0	130.0	180.0	124.0	
EFFLUENT (MG/L)	24.0	20.0	26.0	19.0	23.0	20.0	23.0	25.0	23.0	27.0	28.0	34.0	24.3	
LOADING (KG/D)	2618.40	2054.00	2904.20	2500.40	2589.80	2902.00	2978.50	2957.50	2976.20	3042.90	3276.00	3073.60	2855.49	
PERCENT REMOVAL	75	84	83	82	87	83	76	75	72	78	78	81	80	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	4.9	4.3	3.2	4.6	3.6	3.0	3.6	3.5	3.8	4.0	5.0	4.0	
EFFLUENT (MG/L)	0.6	0.7	0.7	0.4	0.9	0.5	0.5	0.7	0.7	0.8	0.6	1.1M	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	65.46	71.89	78.19	52.64	101.34	72.55	64.75	82.81	90.58	90.16	70.20	99.44	82.26	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 M - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	50%	YES	
SS	70%	YES	
TP	1.0 MG/L	NO	

NO REMEDIAL MEASURES REPORTED

:	WINGHAM	:	SOUTHWEST
:	WINGHAM LAGOON	:	HURON
:	110000828	:	MINISTRY OF THE ENVIRONMENT
:	CONVENTIONAL LAGOON CONTINUOUS	:	MAITLAND RIVER
:		:	MINOR BASIN
:		:	HURON
:		:	MAJOR BASIN
:		:	GREAT LAKES
:	1.60 (1000 M3)	:	POPULATION SERVED
:		:	2,941

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)														
LAGOON DISCHARGE	3.89 120.56	2.08 58.21	2.28 70.72	2.28 123.92	1.85 45.73	2.13 63.83	1.65 51.21	1.60 49.47	1.33 39.77	1.37 42.55	1.54 46.13	1.55 48.15	1.96 63.35	
BOD5														
INFLUENT (MG/L)	87.0	80.0	82.0	111.0	115.0	74.0	153.0	102.0	204.0	124.0	89.0	306.0	127.3	
EFFLUENT (MG/L)	18.9	24.2	22.9	22.4	13.1	22.8	19.3	22.1	19.1	17.5	14.6	15.9	19.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	73.52	50.33	52.21	51.07	24.23	48.56	31.84	35.36	25.40	23.97	22.48	24.64	38.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	118.0	95.0	54.0	51.0	62.0	59.0	74.0	120.0	167.0	104.0	53.0	123.0	90.0	
EFFLUENT (MG/L)	9.3	10.4	8.6	10.3	16.2	28.6	50.9	30.7	36.7	39.6	23.3	20.1	23.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	36.17	21.63	19.60	23.48	29.97	60.91	83.98	49.12	48.81	54.25	35.88	31.15	46.45	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.2	4.0	3.9	4.2	4.2	4.4	4.7	10.4	6.6	4.5	7.0	5.3	
EFFLUENT (MG/L)	2.3	2.9	2.6	2.5	2.2	2.7	3.3	3.2	3.7	3.2	2.4	3.6	2.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	8.94	6.03	5.92	5.70	4.07	5.75	5.44	5.12	4.92	4.38	3.69	5.58	5.68	

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A
 ND - NO DATA
 NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE
FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: WOODSTOCK	REGION	: SOUTHWEST
PLANT	: WOODSTOCK WPCP	DISTRICT	: OXFORD
WORKS NUMBER	: 120000685	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: THAMES RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 32.27 (1000 M3)	POPULATION SERVED	: 27,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	19.17	17.47	18.52	20.99	19.44	19.96	16.91	16.82	16.23	16.80	19.28	19.13	18.39	
BOD5														
INFLUENT (MG/L)	84.0	91.0	93.0	96.0	100.0	98.0	123.0	156.0	129.0	133.0	104.0	116.0	110.3	
EFFLUENT (MG/L)	6.7	6.0	6.9	9.0	8.5	8.5	6.8	8.0	8.9	6.7	6.5	11.9	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	128.43	104.82	127.78	188.91	165.24	169.66	114.98	134.56	144.44	112.56	125.32	227.64	145.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	169.0	257.0	210.0	199.0	179.0	172.0	182.0	272.0	234.0	231.0	246.0	174.0	210.4	
EFFLUENT (MG/L)	6.9	7.1	8.6	9.3	8.8	5.7	6.5	8.8	5.3	7.2	7.4	6.6	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	132.27	124.03	159.27	195.20	171.07	113.77	109.91	148.01	86.01	120.96	142.67	126.25	136.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	5.0	5.9	6.1	5.8	4.6	6.5	4.4	7.3	7.2	6.4	5.8	5.8	
EFFLUENT (MG/L)	0.6	0.9	0.8	0.7	0.6	0.8	0.9	0.6	0.8	0.8	0.6	0.6	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	11.50	15.72	14.81	14.69	11.66	15.96	15.21	10.09	12.98	13.44	11.56	11.47	12.87	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED	1990/03	1990/04	1990/05

REGION	: SOUTHWEST
DISTRICT	: HURON
OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
WATERCOURSE	: MUN DRAIN TO L. HURON
MINOR BASIN	: HURON
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 920

MUNICIPALITY	: ZURICH
PLANT	: ZURICH LAGOON
WORKS NUMBER	: 110001444
TREATMENT	: CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY	0.44 (1000 W3)
DESIGN CAPACITY	0.44 (1000 W3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.49 ND	0.51 ND	0.57 ND	0.57 ND	0.51 84.18	0.44 ND	0.48 ND	0.44 ND	0.43 ND	0.38 36.30	0.40 ND	0.37 ND	0.47 60.24	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	94.0 ND ND ND	144.0 ND ND ND	104.0 ND ND ND	67.0 ND ND ND	ND 1.9 0.96	111.0 ND ND	100.0 ND ND	197.0 ND ND	162.0 ND ND	143.0 3.2 1.21	117.0 ND ND	107.0 ND ND	122.4 2.6 30.0 1.22	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	111.0 ND ND ND	221.0 ND ND ND	163.0 ND ND ND	76.0 ND ND ND	ND 13.8 7.03	86.0 ND ND	140.0 ND ND	240.0 ND ND	193.0 ND ND	159.0 14.1 5.35	104.0 ND ND	55.0 ND ND	140.7 14.0 40.0 6.58	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	6.0 ND ND ND	9.6 ND ND ND	5.6 ND ND ND	3.6 ND ND ND	ND 0.1 0.05	4.6 ND ND	7.3 ND ND	9.3 ND ND	8.3 ND ND	9.3 0.1 0.03	4.8 ND ND	4.9 ND ND	6.7 0.1 0.05	

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
NM - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

1988/02 1990/01

REMEDIAL MEASURES

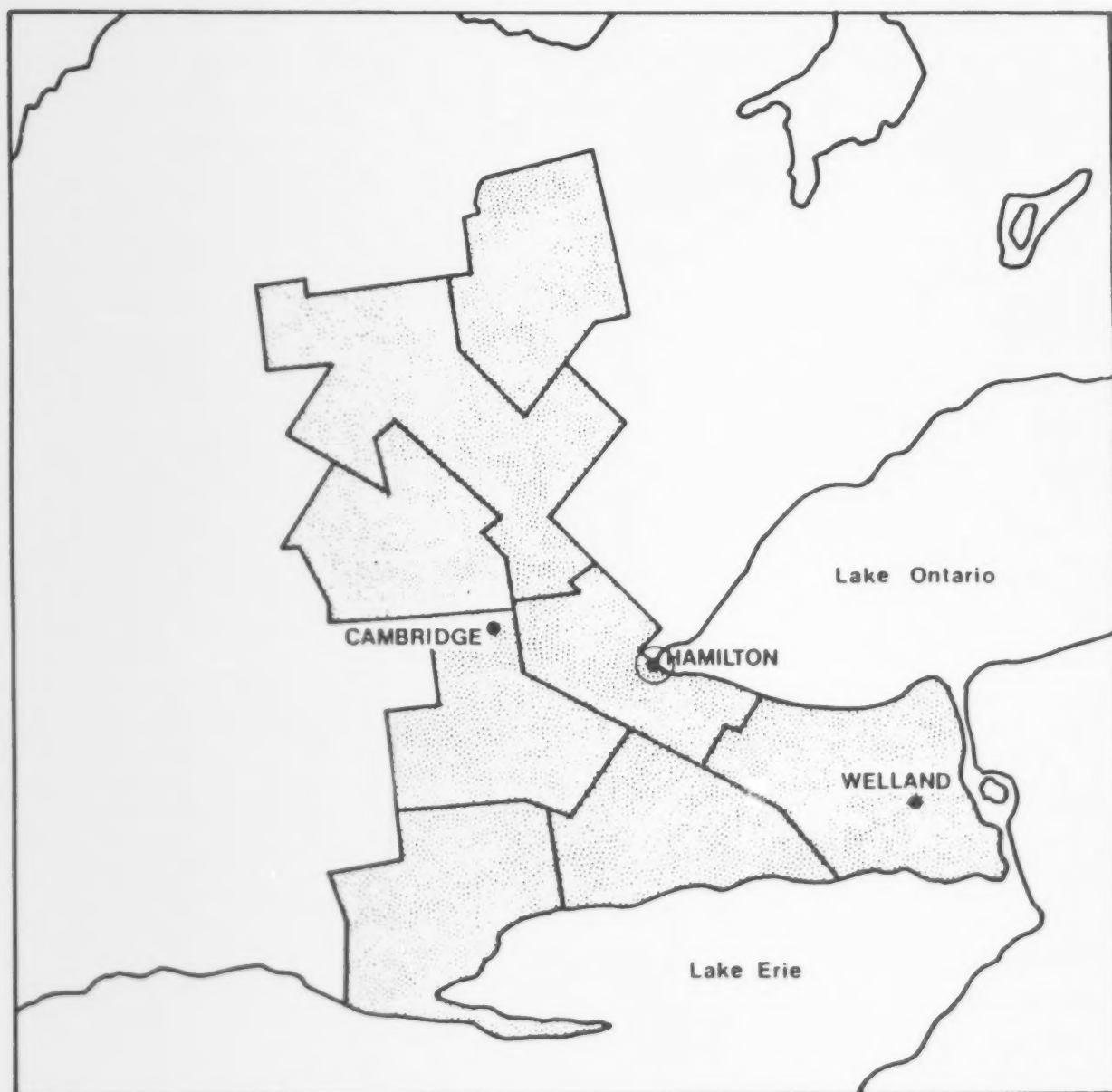
PARAM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA



Ministry
of the
Environment

West Central Region

②





Ministry
of the
Environment

West Central Region

②

REGIONAL OFFICE

Hamilton
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7640

DISTRICT OFFICES

Cambridge
400 Clyde Road
P.O. Box 219
N1R 5T8
(519) 653-1511

Haldimand-Norfolk/Brant
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7732

Hamilton-Wentworth
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7732

Welland
637 - 641 Niagara St. West
L3C 1L9
(416) 384-9896

WEST-CENTRAL SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Conventional Activated Sludge	13	10	23	386.21	1,063.15	1,449.36
Extended Aeration	6	2	8	11.72	6.95	18.67
High Rate	1	0	1	9.32	-	9.32
Oxidation Ditch	4	0	4	4.51	-	4.51
Communal Septic Tank	0	1	1	-	0.23	0.23
Aerated Lagoon	1	0	1	0.99	-	0.99
Convent. Lagoon Continuous	0	1	1	-	2.29	2.29
Conventional Lagoon Seasonal	5	2	7	4.02	1.73	5.75
Aerated Cell Plus Lagoon	2	2	4	4.86	4.98	9.84
Conventional Lagoon Annual	1	1	2	0.09	0.56	0.64
Rotat. Biological Contactor	0	1	1	-	58.19	58.19
TOTALS	34	20	54	421.72	1,138.08	1,559.80

1000M3/D: Thousands of cubic meters per day

ADF: Average Daily Flow

WEST-CENTRAL SUMMARY - 1989

Treatment Type	Number			Annual ADF (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Conventional Activated Sludge	13	10	23	232.45	529.35	761.80
Extended Aeration	6	2	8	5.56	5.66	11.22
High Rate	1	0	1	5.43	0.00	5.43
Oxidation Ditch	4	0	4	3.16	0.00	3.16
Communal Septic Tank	0	1	1	0.00	0.00	0.00
Aerated Lagoon	1	0	1	1.49	0.00	1.49
Convent. Lagoon Continuous	0	1	1	0.00	0.67	0.67
Conventional Lagoon Seasonal	5	2	7	2.47	0.82	3.29
Aerated Cell Plus Lagoon	2	2	4	2.56	4.38	6.94
Conventional Lagoon Annual	1	1	2	0.00	0.25	0.25
Rotat. Biologcial Contactor	0	1	1	0.00	56.38	56.38
TOTALS	34	20	54	267.43	597.51	864.94

1000M3/D: Thousands of cubic meters per day

ADF: Average Daily Flow

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARTHUR
PLANT : ARTHUR LAGOON
WORKS NUMBER : 110000882
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CONESTOGA RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,736

DESIGN CAPACITY : 0.98 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.14	1.07	1.24	1.49	1.30	1.40	0.92	0.93	0.96	1.07	1.42	0.95	1.16	
LAGOON DISCHARGE	ND	ND	ND	165.64	ND	ND	ND	ND	ND	157.41	ND	ND	161.53	
BOD5														
INFLUENT (MG/L)	122.0	76.0	68.0	148.0	142.0	92.0	141.0	158.0	212.0	118.0	ND	48.0	120.5	
EFFLUENT (MG/L)	ND	ND	ND	25.1	ND	ND	ND	ND	ND	5.2	ND	ND	15.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	37.39	ND	ND	ND	ND	ND	5.56	ND	ND	17.63	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	294.0	61.0	113.0	109.0	109.0	154.0	228.0	125.0	96.0	ND	204.0	144.8	
EFFLUENT (MG/L)	ND	ND	ND	13.1	ND	ND	ND	ND	ND	10.4	ND	ND	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	19.51	ND	ND	ND	ND	ND	11.12	ND	ND	13.69	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	6.9	3.0	4.4	5.9	4.6	6.3	7.3	6.4	5.1	ND	7.5	5.7	
EFFLUENT (MG/L)	ND	ND	ND	0.2	ND	ND	ND	ND	ND	0.3	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)	ND	ND	ND	0.29	ND	ND	ND	ND	ND	0.32	ND	ND	0.35	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	: BRANTFORD	REGIONAL CENTRAL
PLANT	: AIRPORT WPCP (DISCHARGE TO A TILE FIELD)	DISTRICT
WORKS NUMBER	: 120004798	OPERATING AUTHORITY
TREATMENT	: COMMUNAL SEPTIC TANK	: MUNICIPAL
		WATERCOURSE
		: NO DISC.TO SURFACE WATER
		MINOR BASIN
		: ERIE
		MAJOR BASIN
		: GREAT LAKES
DESIGN CAPACITY	: 0.22 (1000 M3)	POPULATION SERVED
		: 65

[illegible]

NOTE.
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

PARAM	COMPLIES	
	CRITERIA	WITH CONC
BOD	30%	NO DISCHARGE
SS	50%	NO DISCHARGE
TP	NA	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRANTFORD
 PLANT : BRANTFORD WPCP
 WORKS NUMBER : 110000043
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 81.81 (1000 M3)
 :
 REGION : WEST CENTRAL
 DISTRICT : BRANT
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 73,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	49.80	48.62	49.63	52.63	51.18	51.82	49.44	47.34	48.75	49.42	50.77	45.41	49.57	
BOD5														
INFLUENT (MG/L)	220.0	220.0	267.0	231.0	210.0	219.0	166.0	230.0	234.0	343.0	232.0	191.0	230.3	
EFFLUENT (MG/L)	11.1	11.3	11.6	9.3	11.1	13.8	7.5	10.8	15.3	16.4	17.5	9.4	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	552.78	549.40	575.70	489.45	568.09	715.11	370.80	511.27	745.87	810.48	888.47	426.85	599.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	237.0	260.0	259.0	239.0	214.0	164.0	237.0	249.0	280.0	327.0	256.0	213.0	244.6	
EFFLUENT (MG/L)	9.7	8.5	8.4	7.8	8.9	10.0	4.5	7.9	7.9	13.0	16.1	11.0	9.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	483.06	413.27	416.89	410.51	455.50	518.20	222.48	373.98	385.12	642.46	817.39	499.51	470.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	5.9	6.1	5.6	6.8	6.3	8.4	8.2	9.8	7.8	7.7	4.8	7.9	
EFFLUENT (MG/L)	0.8	0.7	0.7	0.7	1.0	1.2*	1.0	0.9	1.0	1.0	1.0	0.8	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	39.84	34.03	34.74	36.84	51.18	62.18	49.44	42.60	48.75	49.42	50.77	36.32	44.61	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES

START DATE END DATE COMPLIANCE

1990/01

REGION	:	WEST CENTRAL
DISTRICT	:	BRANT
OPERATING AUTHORITY	:	MUNICIPAL
WATERCOURSE	:	FAIRCHILD CREEK
MINOR BASIN	:	ERIE
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	65

: BRANTFORD
: CAINSVILLE LAGOON (SERVES INDUSTRY)
: 120004716
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUSREMOVAL-CONTINUOUS

0.16 (1000 M3)

DESIGN CAPACITY

[illegible]

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TSP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

- EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CAMBRIDGE
 PLANT : GALT WPCP
 WORKS NUMBER : 110000276
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 DESIGN CAPACITY : 38.64 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT :
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 50,143

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	32.55	32.21	33.25	33.64	32.06	33.28	30.23	32.30	31.04	31.46	32.16	29.54	31.98	
BOD5														
INFLUENT (MG/L)	153.0	172.0	165.0	188.0	162.0	185.0	169.0	166.0	160.0	156.0	156.0	151.0	165.3	
EFFLUENT (MG/L)	17.0	14.2	13.4	12.3	14.2	11.5	9.1	9.1	7.4	6.5	9.6	11.2	11.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	553.35	457.38	445.55	413.77	455.25	382.72	275.09	293.93	229.69	267.41	308.73	330.84	367.77	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	154.0	206.0	182.0	213.0	197.0	193.0	181.0	165.0	162.0	158.0	158.0	159.0	177.3	
EFFLUENT (MG/L)	23.7	22.5	23.2	21.8	16.2	16.1	11.1	11.5	11.4	13.0	15.4	16.2	16.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	771.43	724.72	771.40	733.35	519.37	535.80	335.55	371.45	353.85	408.98	495.26	478.54	537.26	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	6.1	5.7	6.3	5.5	6.4	5.1	5.4	6.1	6.4	6.1	5.1	5.8	
EFFLUENT (MG/L)	0.8	0.8	0.8	0.8	0.7	0.8	0.4	0.6	0.7	0.6	0.6	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	26.04	25.76	26.60	26.91	22.44	26.62	12.09	19.38	21.72	18.87	19.29	20.67	22.39	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: CAMBRIDGE
: HESPELER WPCP
: 110001033
: HIGH RATE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 9.31 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SPEED RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 11,392

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.41	5.35	5.67	5.39	5.20	5.51	4.78	4.85	5.29	5.84	6.35	5.52	5.43	
BOD5														
INFLUENT (MG/L)	160.0	136.0	138.0	130.0	124.0	127.0	128.0	159.0	152.0	126.0	142.0	622.0	178.7	
EFFLUENT (MG/L)	67.0	ND	31.0	24.6	18.8	11.3	15.4	10.2	23.1	13.8	29.9	25.8	24.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	362.47	ND	175.77	132.59	97.76	62.26	73.61	49.47	122.19	80.59	189.86	142.41	133.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	178.0	225.0	230.0	208.0	247.0	241.0	264.0	230.0	261.0	249.0	234.0	274.0	236.8	
EFFLUENT (MG/L)	45.9	44.4	42.8	40.6	36.4	39.5	27.4	25.8	30.6	40.9	44.4	44.9	38.6*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	248.31	237.54	242.67	218.83	189.28	217.64	130.97	125.13	161.87	238.85	281.94	247.84	209.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	6.4	5.9	5.6	6.5	5.9	5.8	5.7	6.8	7.1	6.2	6.9	6.2	
EFFLUENT (MG/L)	1.3*	1.7*	1.0	0.8	1.0	1.0	1.4*	1.0	1.1*	1.1*	1.5*	1.4*	1.2	
CONCENTRATION LIMIT (MG/L)													1.2	7
LOADING (KG/D)	7.03	9.09	5.67	4.31	5.20	5.51	6.69	4.85	5.81	6.42	9.52	7.72	6.52	

SUMMARY
COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L NO
TP 1.0 MG/L NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

START DATE END DATE
1989/01 1989/12

ANTICIPATED
COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: CAMBRIDGE
: PRESTON WPCP
: 110000622

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

DESIGN CAPACITY

: 16.86 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 18,727

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.34	9.32	9.76	9.89	10.10	10.00	9.00	9.60	9.00	9.12	10.12	8.79	9.50	
BOD5														
INFLUENT (MG/L)	516.0	490.0	481.0	391.0	676.0	415.0	438.0	519.0	457.0	290.0	278.0	492.0	453.6	
EFFLUENT (MG/L)	13.9	11.7	14.4	9.3	13.3	9.6	5.2	8.1	9.3	9.5	7.1	7.9	9.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	129.82	109.04	140.54	91.97	134.33	96.00	46.80	77.76	83.70	86.64	71.85	69.44	94.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	360.0	578.0	449.0	507.0	577.0	476.0	560.0	642.0	538.0	386.0	379.0	393.0	487.1	
EFFLUENT (MG/L)	11.3	9.4	10.2	8.6	10.5	8.2	5.5	6.8	9.6	7.7	8.5	11.0	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	105.54	87.60	99.55	85.05	106.05	82.00	49.50	65.28	86.40	70.22	86.02	96.69	84.55	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	6.1	4.9	4.3	8.3	7.0	7.5	6.8	7.4	6.2	5.5	3.9	6.2	
EFFLUENT (MG/L)	0.8	0.5	0.6	0.4	1.4*	1.2*	1.3*	0.8	0.7	0.4	0.3	0.3	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	
LOADING (KG/D)	7.47	4.66	5.85	3.95	14.14	12.00	11.70	7.68	6.30	3.64	3.03	2.63	6.65	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

REMEDIAL MEASURES

ANTICIPATED

START DATE END DATE COMPLIANCE

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED

1989/06 1989/08

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: DELHI
: DELHI WPCP
: 120001425
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: AEROBIC SINGLE STAGE
: 3.18 (1000 M3)

DESIGN CAPACITY

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BIG CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,257

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.41	2.32	2.24	2.10	2.14	1.97	1.80	1.76	1.76	2.41	2.54	2.36	2.15	
BOD5														
INFLUENT (MG/L)	169.0	148.0	142.0	169.0	142.0	120.0	157.0	118.0	145.0	168.0	138.0	147.0	146.9	
EFFLUENT (MG/L)	12.6	5.6	2.6	3.6	10.9	8.4	13.9	22.3	25.4	6.5	8.0	18.9	11.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	30.36	12.99	5.82	7.56	23.32	16.54	25.02	39.24	44.70	15.66	20.32	44.60	24.94	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	137.0	173.0	172.0	152.0	169.0	150.0	195.0	142.0	181.0	174.0	152.0	168.0	163.8	
EFFLUENT (MG/L)	9.8	6.8	5.5	13.2	11.5	6.6	4.8	6.8	7.5	4.6	6.0	9.7	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	23.61	15.77	12.32	27.72	24.61	13.00	8.64	11.96	13.20	11.08	15.24	22.89	16.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	6.2	7.1	5.7	7.7	5.3	7.1	5.7	6.5	7.4	3.4	5.7	6.2	
EFFLUENT (MG/L)	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.72	0.46	0.44	0.63	0.42	0.19	0.18	0.35	0.35	0.48	0.50	0.70	0.43	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: DRAYTON
: DRAYTON LAGOON (MUN OP JAN 1 1989)
: 120001782
: CONVENTIONAL LAGOON ANNUAL
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CONESTOGO RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

DESIGN CAPACITY : 0.55 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	0.24	0.25	0.26	0.23	0.24	0.23	0.22	0.24	0.28	0.31	0.25	0.25	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68.94	68.94	
BOD5														
INFLUENT (MG/L)	ND	ND	188.0	105.0	ND	190.0	207.0	ND	ND	222.0	ND	ND	182.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	
CONCENTRATION LIMIT (MG/L)													3.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
													0.75	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	198.0	122.0	ND	106.0	148.0	ND	ND	396.0	ND	ND	194.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.88	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	ND	ND	7.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

COMPLIES
WITH CONC
PARAM CRITERIA
BOD 30.0 MG/L YES
SS 40.0 MG/L YES
TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUNDAS
 PLANT : DUNDAS KING ST. WPCP
 WORKS NUMBER : 120001372
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 DESIGN CAPACITY : 16.18 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : COOTES PARADISE
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 19,501

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	11.23	10.20	11.08	11.89	10.77	12.37	10.78	ND	8.59	9.31	9.91	ND	10.61	
BOD5														
INFLUENT (MG/L)	111.0	128.0	119.0	112.0	121.0	105.0	124.0	105.0	121.0	115.0	86.0	ND	113.4	
EFFLUENT (MG/L)	1.1	1.2	2.0	1.2	2.0	0.6	1.0	0.9	1.3	1.4	1.6	ND	1.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.35	12.24	22.16	14.26	21.54	7.42	10.78	ND	11.16	13.03	15.85	ND	13.79	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	153.0	182.0	168.0	161.0	176.0	151.0	204.0	138.0	180.0	210.0	145.0	ND	169.8	
EFFLUENT (MG/L)	1.1	1.4	1.0	1.3	1.6	1.0	7.0	2.0	1.5	4.9	2.1	ND	2.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.35	14.28	11.08	15.45	17.23	12.37	75.46	ND	12.88	45.61	20.81	ND	24.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	5.3	4.6	4.0	4.1	3.8	4.6	4.6	3.6	5.3	4.1	ND	4.4	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.1	0.3	0.1	1.0	0.8	0.2	0.3	0.4	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.24	2.04	3.32	1.18	3.23	1.23	10.78	ND	1.71	2.79	3.96	ND	4.24	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: DUNNVILLE
: DUNNVILLE WPCP
: 120001443
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 7.72 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,182

AVG. DAILY FLOW (1000 M3)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
BOD5	4.20	3.80	4.40	5.17	5.43	4.78	3.46	4.08	3.69	3.51	5.10	3.80	4.29	
INFLUENT (MG/L)	90.0	67.0	43.0	171.0	87.0	ND	106.0	175.0	144.0	175.0	258.0	127.0	131.2	
EFFLUENT (MG/L)	6.0	14.7	6.0	9.8	4.9	ND	4.2	4.8	6.2	5.0	9.5	5.9	7.0	
CONCENTRATION LIMIT (MG/L)	25.20	55.86	26.40	50.66	26.60	ND	14.53	19.58	22.87	17.55	48.45	22.42	25.0	
LOADING (KG/D)													30.03	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	122.0	126.0	121.0	157.0	111.0	120.0	94.0	99.0	97.0	92.0	111.0	130.0	115.0	
EFFLUENT (MG/L)	13.9	27.4	8.0	12.3	12.6	14.5	6.3	7.9	7.2	6.2	6.8	8.8	11.0	
CONCENTRATION LIMIT (MG/L)	58.38	104.12	35.20	63.59	68.41	69.31	21.79	32.23	26.56	21.76	34.68	33.44	25.0	
LOADING (KG/D)													47.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	4.7	5.0	4.6	4.4	3.8	4.5	5.1	4.6	4.6	7.0	4.8	4.8	
EFFLUENT (MG/L)	0.8	ND	0.7	0.5	0.6	2.6*	0.4	0.6	0.6	0.9	0.5	0.5	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.36	ND	3.08	2.58	3.25	12.42	1.38	2.44	2.21	3.15	2.55	1.90	3.43	

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989/06	1989/06	1989/06

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT	DESIGN CAPACITY
• DUNNVILLE	• OSWEGO PARK	• LAGOON		
• 11003068				
• CONVENTIONAL	• LAGOON	• ANNUAL		
• 0.04 (1000 M3)				

REGION	:	WEST CENTRAL
DISTRICT	:	HALDIMAN-MORFORK, REG. MUN.
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	OSWEGO CREEK
MINOR BASIN	:	ERIE
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	232

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	229.0 ND ND ND	ND ND ND ND	466.0 ND ND ND	193.0 9.2 ND ND	ND ND ND ND	ND ND ND ND	266.0 ND ND ND	272.0 ND ND ND	ND ND ND ND	148.0 ND ND ND	205.0 ND ND ND	254.1 9.2 30.0	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	270.0 ND ND ND	90.0 ND ND ND	ND ND ND ND	362.0 ND ND ND	266.0 9.2 ND ND	ND ND ND ND	ND ND ND ND	160.0 ND ND ND	ND ND ND ND	ND ND ND ND	174.0 ND ND ND	306.0 ND ND ND	232.6 9.2 40.0	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	ND ND ND ND	ND ND ND ND	11.6 ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	11.6 ND ND ND	ND ND ND ND	11.6	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 (SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

C-136

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ELORA
 PLANT : ELORA WPCP
 WORKS NUMBER : 110000178
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 3.06 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : WELLINGTON
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,129

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.35	1.32	1.39	1.50	1.43	1.50	1.42	1.29	1.35	1.16	1.48	1.46	1.39	
BOD5														
INFLUENT (MG/L)	114.0	136.0	127.0	117.0	124.0	110.0	152.0	157.0	150.0	148.0	179.0	150.0	139.7	
EFFLUENT (MG/L)	3.3	3.2	1.3	2.2	5.0	2.1	0.6	0.7	0.4	0.7	3.2	4.8	2.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.45	4.22	1.80	3.30	7.15	3.15	0.85	0.90	0.54	0.81	4.73	7.00	3.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	158.0	198.0	163.0	143.0	158.0	120.0	178.0	172.0	180.0	142.0	143.0	144.0	158.3	
EFFLUENT (MG/L)	8.9	8.7	7.6	8.8	10.0	6.8	4.4	5.1	5.5	4.4	5.3	7.7	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.01	11.48	10.56	13.20	14.30	10.20	6.24	6.57	7.42	5.10	7.84	11.24	9.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	6.6	7.1	5.5	6.6	3.4	6.9	6.7	7.8	7.5	6.8	6.7	6.5	
EFFLUENT (MG/L)	0.3	0.3	0.3	0.3	0.5	0.8	0.1	0.1	0.1	0.2	0.7	1.7*	0.5	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	
LOADING (KG/D)	0.40	0.39	0.41	0.45	0.71	1.20	0.14	0.12	0.13	0.23	1.03	2.48	0.70	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - MAINTENANCE PROCEDURES BEING UPGRADED

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989/12	1990/01	1990/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FERGUS
 PLANT : FERGUS WPCP
 WORKS NUMBER : 110000249
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 5.00 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : WELLINGTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,050

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.07	3.75	4.58	5.10	4.34	4.96	3.52	3.53	3.47	3.47	4.89	4.47	4.18	
BOD5														
INFLUENT (MG/L)	75.0	130.0	119.0	78.0	117.0	97.0	110.0	146.0	122.0	219.0	112.0	115.0	120.0	
EFFLUENT (MG/L)	7.1	15.1	20.8	5.3	9.6	19.8	9.8	8.9	10.5	13.7	10.4	11.1	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.89	56.62	95.26	27.03	41.66	98.20	34.49	31.41	36.43	47.53	50.85	49.61	49.32	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	166.0	179.0	158.0	143.0	204.0	183.0	415.0	323.0	183.0	237.0	297.0	164.0	221.0	
EFFLUENT (MG/L)	27.5	29.4	38.0	29.0	25.7	19.7	20.4	22.1	23.0	23.8	25.6	26.4	25.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	111.92	110.25	174.04	147.90	111.53	97.71	71.80	78.01	79.81	82.58	125.18	118.00	108.26	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	5.8	3.4	3.4	6.0	3.1	4.6	5.8	6.2	7.5	4.3	1.9	4.7	
EFFLUENT (MG/L)	0.4	0.5	0.6	0.3	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.62	1.87	2.74	1.53	2.17	2.97	1.76	1.76	1.73	1.38	2.44	2.23	2.09	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	NO	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES

COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS

START DATE : 1989/06
 END DATE : 1990/04
 ANTICIPATED COMPLIANCE

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: FLAMBOROUGH
: WATERDOWN WPCP
: 120005001

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING

DESIGN CAPACITY

: 2.72 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GRINDSTONE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.44	1.95	1.75	2.02	2.29	2.38	2.01	2.15	2.50	2.32	2.16	2.08	2.17	
BOD5														
INFLUENT (MG/L)	125.0	126.0	125.0	113.0	133.0	111.0	112.0	125.0	118.0	117.0	81.0	ND	116.9	
EFFLUENT (MG/L)	1.6	1.1	2.0	2.3	3.0	1.1	2.0	0.8	1.0	0.7	2.3	ND	1.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.90	2.14	3.50	4.64	6.87	2.61	4.02	1.72	2.50	1.62	4.96	ND	3.47	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	161.0	145.0	269.0	165.0	158.0	154.0	147.0	171.0	134.0	116.0	ND	160.9	
EFFLUENT (MG/L)	2.3	1.0	2.3	1.7	3.0	1.6	1.0	2.2	2.0	3.7	5.5	ND	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.61	1.95	4.02	3.43	6.87	3.80	2.01	4.73	5.00	8.58	11.88	ND	5.21	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.1	4.7	4.6	3.9	4.1	4.7	5.3	5.0	4.6	4.2	ND	4.7	
EFFLUENT (MG/L)	0.3	0.3	0.9	0.6	0.7	0.2	0.4	0.4	0.2	0.4	0.4	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.73	0.58	1.57	1.21	1.60	0.47	0.80	0.86	0.50	0.92	0.86	ND	0.87	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT ERIE REGION : WEST CENTRAL
 PLANT : ANGER AVE. WPCP DISTRICT : NIAGARA, REG. MUN.
 WORKS NUMBER : 120001292 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : NIAGARA RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS (1990) MINOR BASIN : ONTARIO
 : : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 16.36 (1000 M3) POPULATION SERVED : 13,765

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	8.94	8.75	13.14	9.88	15.28	13.13	8.66	9.72	9.98	8.88	13.44	8.42	10.69	
BOD5 INFLUENT (MG/L)	120.0	90.0	73.0	22.0	66.0	41.0	189.0	150.0	70.0	133.0	61.0	101.0	93.0	
EFFLUENT (MG/L)	25.1	50.9	21.2	10.0	28.9	34.9	44.1	52.2	49.8	50.8	19.0	16.4	33.6*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	224.39	445.37	278.56	98.80	441.59	458.23	381.90	507.38	497.00	451.10	255.36	138.08	359.18	
SUSPENDED SOLIDS INFLUENT (MG/L)	90.0	94.0	74.0	67.0	82.0	69.0	78.0	100.0	105.0	99.0	87.0	106.0	87.6	
EFFLUENT (MG/L)	27.2	34.7	26.1	29.8	25.9	27.3	33.2	37.4	39.7	37.6	10.4	15.5	28.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	243.16	303.62	342.95	294.42	395.75	358.44	287.51	363.52	396.20	333.88	139.77	130.51	306.80	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	2.9	3.4	2.7	2.5	2.5	2.3	3.3	3.0	3.8	3.6	2.2	3.2	3.0	
EFFLUENT (MG/L)	0.7	0.8	0.6	0.7	1.1*	0.4	0.8	1.0	0.8	1.1*	0.4	0.3	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	6.25	7.00	7.88	6.91	16.80	5.25	6.92	9.72	7.98	9.76	5.37	2.52	7.48	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

REMEDIAL MEASURES

COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
 SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES
 SLUDGE DISPOSAL/REMOVAL - UPGRADING DIGESTOR
 FACILITY EXPANSION/UPGRADING - UPGRADING TO SECONDARY TREATMENT

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989	1990/02	1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT ERIE
 PLANT : CRYSTAL BEACH WPCP
 WORKS NUMBER : 120001283
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 3.88 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ERIE
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,095

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.80	3.40	4.60	5.10	6.30	7.20	3.90	3.50	3.28	3.00	3.70	3.23	4.25	
BOD5														
INFLUENT (MG/L)	52.0	85.0	49.0	73.0	74.0	23.0	65.0	71.0	44.0	43.0	55.0	65.0	58.3	
EFFLUENT (MG/L)	7.7	17.1	14.0	13.3	9.6	8.4	29.2	12.5	22.6	17.9	6.9	15.0	14.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.26	58.14	64.40	67.83	60.48	60.48	113.88	43.75	74.12	53.70	25.53	48.45	61.63	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	79.0	102.0	54.0	96.0	61.0	63.0	108.0	77.0	59.0	63.0	61.0	64.0	73.8	
EFFLUENT (MG/L)	12.6	17.6	12.4	13.6	12.7	14.8	25.5	17.6	24.7	17.7	14.5	15.6	16.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	47.88	59.84	57.04	69.36	80.01	106.56	99.45	61.60	81.01	53.10	53.65	50.38	70.55	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	3.5	3.0	2.8	4.3	2.5	4.1	3.3	2.6	2.8	2.3	2.8	3.1	
EFFLUENT (MG/L)	0.5	1.1*	0.7	0.4	0.3	0.6	1.2*	0.9	1.3*	1.0	0.5	0.5	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.90	3.74	3.22	2.04	1.89	4.32	4.68	3.15	4.26	3.00	1.85	1.61	3.40	
														3

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
 SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES
 FACILITY EXPANSION/UPGRADING - UPGRADING TO SECONDARY TREATMENT
 FACILITY EXPANSION/UPGRADING - UPGRADING SECONDARY CLARIFIERS
 FACILITY EXPANSION/UPGRADING - UPGRADING PRIMARY CLARIFIERS
 FACILITY EXPANSION/UPGRADING - UPGRADING DISINFECTION PROCESS

START DATE	END DATE	ANTICIPATED COMPLIANCE
------------	----------	------------------------

1990/09	1991	
1990	1991	
1990	1991	
1990	1991	
1990	1991	
1990	1991	

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT ERIE
 PLANT : STEVENSVILLE-DOUGLASTOWN LAGOON
 WORKS NUMBER : 120003110
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NIAGARA RIVER
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,500

DESIGN CAPACITY : 2.29 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.65	0.59	0.78	0.76	0.73	0.72	0.53	0.54	0.63	0.63	0.86	0.63	0.67	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	325.0	112.0	35.0	93.0	34.0	48.0	111.0	89.0	112.0	56.0	34.0	104.0	96.1	
EFFLUENT (MG/L)	6.9	10.9	11.5	6.0	12.8	2.4	5.7	10.6	6.6	9.1	6.1	8.6	8.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.48	6.43	8.97	4.56	9.34	1.72	3.02	5.72	4.15	5.73	5.24	5.41	5.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	490.0	147.0	113.0	162.0	47.0	52.0	108.0	126.0	99.0	68.0	34.0	82.0	127.3	
EFFLUENT (MG/L)	9.4	24.0	50.0	14.8	19.8	8.1	14.5	50.0	46.0	6.0	4.3	12.9	21.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	6.11	14.16	39.00	11.24	14.45	5.83	7.68	27.00	28.98	3.78	3.69	8.12	14.54	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	ND	ND	ND	2.5	3.7	5.7	5.0	6.3	3.8	3.3	6.4	4.7	
EFFLUENT (MG/L)	2.5	ND	ND	ND	3.7	2.2	1.4	1.5	1.5	1.9	1.9	2.7	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.62	ND	ND	ND	2.70	1.58	0.74	0.81	0.94	1.19	1.63	1.70	1.41	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRAND VALLEY
 PLANT : GRAND VALLEY WPCP
 WORKS NUMBER : 110000301
 TREATMENT : OXIDATION DITCH
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 0.60 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : DUFFERIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,060

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.42	0.37	0.51	0.59	0.41	0.45	0.31	0.33	0.32	0.34	0.51	0.35	0.41	
BOD5														
INFLUENT (MG/L)	214.0	177.0	136.0	160.0	132.0	93.0	125.0	147.0	225.0	240.0	220.0	229.0	175.5	
EFFLUENT (MG/L)	5.9	8.5	4.3	5.4	4.4	3.3	1.4	2.2	2.1	2.1	9.4	9.3	4.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.47	3.14	2.19	3.16	1.80	1.46	0.43	0.72	0.67	0.71	4.79	3.25	2.01	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	96.0	153.0	97.0	100.0	131.0	116.0	219.0	176.0	148.0	178.0	155.0	186.0	146.4	
EFFLUENT (MG/L)	11.7	21.7	18.4	16.6	12.4	9.6	6.6	7.3	7.8	10.7	16.4	18.5	13.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.91	8.02	9.38	9.79	5.08	4.32	2.66	2.40	2.49	3.63	8.36	6.47	5.45	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	6.5	4.4	5.3	6.2	6.0	7.4	6.7	7.6	9.0	6.5	7.9	6.5	
EFFLUENT (MG/L)	0.5	0.8	0.6	0.6	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.21	0.29	0.30	0.35	0.24	0.22	0.12	0.16	0.16	0.13	0.20	0.21	0.21	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: GRINSBY
: BAKER ROAD WPCP
: 120001684
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 18.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 19,850

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	12.26	11.24	14.46	15.76	17.97	14.86	11.65	10.56	11.82	11.72	14.41	11.46	13.18	
BOD5 INFLUENT (MG/L)	137.0	157.0	131.0	106.0	131.0	168.0	216.0	178.0	206.0	170.0	166.0	167.0	162.8	
EFFLUENT (MG/L)	25.6	26.1	38.2	31.7	15.8	19.3	23.8	9.5	11.6	12.5	21.2	30.3	22.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	313.85	293.36	552.37	499.59	283.92	286.79	277.27	100.32	137.11	146.50	305.49	347.23	291.28	
SUSPENDED SOLIDS INFLUENT (MG/L)	184.0	210.0	177.0	162.0	158.0	185.0	201.0	201.0	201.0	183.0	183.0	193.0	186.5	
EFFLUENT (MG/L)	6.5	9.2	7.2	4.7	9.8	8.9	7.7	6.2	5.3	8.5	9.9	5.7	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	79.69	103.40	104.11	74.07	176.10	132.25	89.70	65.47	62.64	99.62	142.65	65.32	98.85	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	7.5	6.7	4.8	4.4	4.6	6.3	7.4	7.6	5.9	6.4	7.2	7.3	6.3	
EFFLUENT (MG/L)	0.2	0.5	0.2	0.2	0.5	0.4	0.4	0.3	0.2	0.4	1.0	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.45	5.62	2.89	3.15	8.98	5.94	4.66	3.16	2.36	4.68	14.41	4.58	5.27	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRIMSBY
PLANT : BIGGAR LAGOON
WORKS NUMBER : 120001256
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
:

DESIGN CAPACITY : 1.13 (1000 M3)
: 1.075

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,075

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.87	0.81	1.15	1.11	1.25	1.12	0.75	0.73	1.66	1.28	1.20	0.74	1.06	
LAGOON DISCHARGE	26.94	22.78	35.63	33.09	38.77	33.49	23.06	22.77	49.58	39.56	35.95	22.90	32.04	
BODS														
INFLUENT (MG/L)	191.0	184.0	221.0	116.0	172.0	232.0	338.0	230.0	1,653.0	1,314.0	586.0	476.0	476.1	
EFFLUENT (MG/L)	8.0	11.1	11.7	17.6	5.1	8.9	4.2	3.9	5.0	3.4	4.4	7.1	7.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	6.96	8.99	13.45	19.53	6.37	9.96	3.15	2.84	8.30	4.35	5.28	5.25	7.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	101.0	139.0	89.0	89.0	99.0	113.0	128.0	257.0	507.0	293.0	124.0	165.0	175.3	
EFFLUENT (MG/L)	6.5	6.4	82.5	20.5	7.4	3.6	4.4	4.6	5.3	6.2	10.5	9.3	13.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	5.65	5.18	94.87	22.75	9.25	4.03	3.30	3.35	8.79	7.93	12.60	6.88	14.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	8.5	4.1	4.5	4.5	4.3	4.2	6.2	9.3	7.5	3.6	8.1	5.8	
EFFLUENT (MG/L)	4.5	3.3	3.2	2.9	2.5	0.7	1.0	1.8	3.5	2.9	2.2	2.4	2.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.91	2.67	3.68	3.21	3.12	0.78	0.75	1.31	5.81	3.71	2.64	1.77	2.76	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

COMPLIES WITH CONC
PARAM CRITERIA 30.0 MG/L YES
BOD 40.0 MG/L YES
SS NA
TP NA

REMEDIAL MEASURES

COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY

START DATE END DATE
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: GUELPH
: GUELPH WPCP
: 120003094

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING

DESIGN CAPACITY

: 54.55 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SPEED RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 82,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	44.34	44.49	44.04	46.61	43.68	45.08	35.73	32.88	46.96	45.09	44.91	44.91	43.23	
BOD5														
INFLUENT (MG/L)	157.0	179.0	207.0	164.0	166.0	166.0	171.0	205.0	240.0	166.0	194.0	194.0	184.1	
EFFLUENT (MG/L)	4.2	4.3	8.3	11.5	7.1	5.9	4.6	4.5	3.9	6.5	6.2	3.0	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	186.22	191.30	365.53	536.01	310.12	265.97	164.35	147.96	183.14	293.08	278.44	134.73	250.73	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	187.0	194.0	196.0	171.0	178.0	211.0	191.0	238.0	306.0	208.0	221.0	192.0	207.8	
EFFLUENT (MG/L)	11.4	9.5	10.8	12.0	6.9	8.3	7.0	5.9	7.9	8.2	6.3	7.9	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	505.47	422.65	475.63	559.32	301.39	374.16	250.11	193.99	370.98	369.73	282.93	354.78	367.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	7.7	7.4	7.1	6.6	6.3	5.3	6.9	6.1	5.8	7.2	7.3	6.8	
EFFLUENT (MG/L)	0.8	0.9	0.6	0.5	0.4	0.4	0.5	0.6	0.6	0.5	0.7	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	35.47	40.04	26.42	23.30	17.47	18.03	17.86	19.72	28.17	22.54	31.43	31.43	25.94	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

OPERATIONAL/PROCESS - MINOR PROCESS/OPERATIONAL MODIFICATION

START DATE END DATE ANTICIPATED COMPLIANCE

1989/10

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HALDIMAND
: CALEDONIA WPCP
: 120001452
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 2.27 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,655

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.50	2.40	3.18	3.45	2.68	1.87	2.36	2.19	2.39	2.26	2.79	2.44	2.54	
BOD5														
INFLUENT (MG/L)	115.0	130.0	91.0	111.0	110.0	136.0	293.0	207.0	172.0	225.0	213.0	124.0	160.6	
EFFLUENT (MG/L)	19.1	17.3	26.6	21.6	26.1	34.0	45.2	19.7	18.7	15.5	9.5	16.4	22.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	47.75	41.52	84.58	74.52	69.94	63.58	106.67	43.14	44.69	35.03	26.50	40.01	57.15	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	174.0	255.0	211.0	266.0	202.0	253.0	236.0	350.0	305.0	278.0	200.0	200.0	244.2	
EFFLUENT (MG/L)	13.3	17.4	16.0	13.8	22.0	18.3	15.9	11.3	19.8	10.8	6.2	9.0	14.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	33.25	41.76	50.88	47.61	58.96	34.22	37.52	24.74	47.32	24.40	17.29	21.96	36.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	6.5	6.2	5.5	5.6	6.9	6.3	6.9	6.9	7.3	6.3	7.4	6.5	
EFFLUENT (MG/L)	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.76	
LOADING (KG/D)	0.75	0.72	0.95	1.38	0.80	0.56	0.70	0.43	0.95	0.67	0.83	0.73	0.76	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HALDIMAND
: CAYUGA WPCP
: 110000089
: OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 0.90 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,258

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.53	0.45	0.62	0.69	0.67	0.55	0.42	0.35	0.43	0.42	0.62	0.42	0.51	
BOD5														
INFLUENT (MG/L)	91.0	106.0	117.0	68.0	105.0	152.0	165.0	283.0	169.0	239.0	133.0	156.0	148.7	
EFFLUENT (MG/L)	5.8	2.5	2.8	7.7	0.9	0.5	1.3	0.5	0.6	0.7	2.3	0.3	2.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.07	1.03	1.73	5.31	0.60	0.27	0.54	0.17	0.25	0.29	1.42	0.12	1.07	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	173.0	166.0	120.0	130.0	137.0	190.0	501.0	222.0	170.0	130.0	177.0	184.7	
EFFLUENT (MG/L)	10.5	10.3	10.0	18.0	11.3	0.5	3.5	4.0	10.0	1.7	7.8	4.7	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.56	4.63	6.20	12.42	7.57	0.27	1.47	1.40	4.30	0.71	4.83	1.97	3.93	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	6.2	7.2	5.3	6.7	7.7	11.5	10.2	8.6	0.8	7.1	7.3	7.0	
EFFLUENT (MG/L)	0.3	0.5	0.4	0.5	0.4	0.2	0.3	0.5	0.5	0.3	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)													0.20	
LOADING (KG/D)	0.15	0.22	0.24	0.34	0.26	0.11	0.12	0.17	0.21	0.12	0.24	0.16	0.20	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HALDIMAND
: HAGERSVILLE WPCP
: 110001024
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: AEROBIC SINGLE STAGE
: 1.00 (1000 M3)

DESIGN CAPACITY

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SANDUSK CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,268

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.27	1.25	1.73	1.64	1.39	1.15	0.72	0.66	0.89	0.81	1.36	0.91	1.15	
BOD₅														
INFLUENT (MG/L)	251.0	156.0	292.0	250.0	125.0	242.0	147.0	344.0	150.0	317.0	185.0	293.0	229.3	
EFFLUENT (MG/L)	5.6	10.4	14.5	7.9	3.6	19.9	6.6	34.6	31.5	13.7	16.7	7.7	14.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.11	13.00	25.08	12.95	5.00	22.88	4.75	22.83	28.03	11.09	22.71	7.00	16.56	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	129.0	133.0	150.0	65.0	126.0	141.0	240.0	131.0	200.0	136.0	191.0	147.9	
EFFLUENT (MG/L)	7.8	7.8	15.3	18.5	7.5	8.5	6.5	13.0	8.0	9.0	9.5	7.7	9.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.90	9.75	26.46	30.34	10.42	9.77	4.68	8.58	7.12	7.29	12.92	7.00	11.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.6	4.9	7.6	8.2	5.1	8.7	6.9	6.9	6.6	9.0	6.5	8.7	7.4	
EFFLUENT (MG/L)	0.3	0.2	0.6	0.3	0.3	0.4	0.5	1.0	0.8	0.4	0.5	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.38	0.25	1.03	0.49	0.41	0.46	0.36	0.66	0.71	0.32	0.68	0.36	0.58	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAMILTON REGION : WEST CENTRAL
 PLANT : WOODWARD AVE. WPCP (OFFSITE CHEM. ADDN) DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
 WORKS NUMBER : 120001504 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : REDHILL CREEK
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : ONTARIO
 : : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 409.14 (1000 M3) POPULATION SERVED : 300,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	233.66	276.85	345.50	316.86	345.95	360.95	338.22	309.13	285.03	283.22	339.13	292.31	310.57	
BOD5														
INFLUENT (MG/L)	189.0	227.0	182.0	158.0	119.0	125.0	91.0	107.0	105.0	132.0	106.0	151.0	141.0	
EFFLUENT (MG/L)	12.0	8.0	13.0	12.0	9.0	7.0	3.0	4.0	6.0	7.0	4.0	5.0	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2803.92	2214.80	4491.50	3802.32	3113.55	2526.65	1014.66	1236.52	1710.18	1982.54	1356.52	1461.55	2329.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	482.0	586.0	477.0	384.0	304.0	335.0	365.0	249.0	241.0	357.0	259.0	401.0	370.0	
EFFLUENT (MG/L)	25.0	13.0	28.0	19.0	17.0	17.0	12.0	10.0	15.0	13.0	9.0	8.0	15.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5641.50	3599.05	9674.00	6020.34	5881.15	6136.15	4058.64	3091.30	4275.45	3681.86	3052.17	2338.48	4013.84	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	6.8	5.6	4.8	3.9	4.3	4.6	4.0	3.5	5.8	3.9	5.7	4.8	
EFFLUENT (MG/L)	0.7	0.3	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.3	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	163.56	83.05	172.75	126.74	172.97	144.38	169.11	123.65	142.51	113.28	101.73	87.69	124.23	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HARRISTON
: HARRISTON LAGOON
: 110000329
: AERATED LAGOON
: SEASONAL DISCHARGE
:
:

DESIGN CAPACITY : 0.99 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAITLAND RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,963

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.76	1.44	1.85	1.89	1.48	1.60	1.00	1.15	1.19	1.28	1.81	1.41	1.49	
LAGOON DISCHARGE	51.63	26.20	22.37	69.45	ND	ND	ND	ND	ND	ND	24.36	46.64	40.11	
BOD5 INFLUENT (MG/L)	116.0	236.0	119.0	133.0	128.0	124.0	167.0	140.0	144.0	156.0	87.0	181.0	144.3	
EFFLUENT (MG/L)	3.6	8.3	7.0	9.1	ND	ND	ND	ND	ND	ND	2.5	10.0	6.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	6.33	11.95	12.95	17.19	ND	ND	ND	ND	ND	ND	4.52	14.10	10.13	
SUSPENDED SOLIDS INFLUENT (MG/L)	198.0	434.0	197.0	211.0	177.0	195.0	157.0	192.0	259.0	231.0	64.0	196.0	209.3	
EFFLUENT (MG/L)	4.1	8.6	6.0	10.8	ND	ND	ND	ND	ND	ND	6.0	12.4	8.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	7.21	12.38	11.10	20.41	ND	ND	ND	ND	ND	ND	10.86	17.48	11.92	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	8.3	13.9	7.1	7.4	6.6	7.7	7.1	6.9	7.3	7.8	4.7	7.4	7.7	
EFFLUENT (MG/L)	0.2	0.2	0.1	0.2	ND	ND	ND	ND	ND	ND	0.6	0.9	0.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.35	0.28	0.18	0.37	ND	ND	ND	ND	ND	ND	1.08	1.26	0.60	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KITCHENER
 PLANT : KITCHENER WPCP
 WORKS NUMBER : 110000374
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 122.74 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT :
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 138,271

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	73.02	69.63	71.42	73.46	70.28	73.80	63.84	63.74	63.97	63.07	69.22	61.66	68.09	
BOD5 INFLUENT (MG/L)	218.0	207.0	193.0	226.0	242.0	194.0	185.0	184.0	170.0	204.0	281.0	294.0	216.5	
EFFLUENT (MG/L)	8.9	8.4	6.6	15.3	16.3	15.7	15.7	9.6	10.5	13.7	16.5	18.0	12.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	649.87	584.89	471.37	1123.93	1145.56	1158.66	1002.28	611.90	671.68	864.05	1142.13	1109.88	878.36	
SUSPENDED SOLIDS INFLUENT (MG/L)	250.0	236.0	189.0	221.0	239.0	240.0	231.0	252.0	249.0	240.0	261.0	261.0	239.1	
EFFLUENT (MG/L)	6.3	7.1	5.0	4.4	5.4	4.8	10.8	6.7	4.1	5.8	4.2	3.3	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	460.02	494.37	357.10	323.22	379.51	354.24	689.47	427.05	262.27	365.80	290.72	203.47	388.11	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.6	7.0	7.0	6.1	6.5	6.5	6.9	ND	7.4	7.0	6.8	7.7	6.9	
EFFLUENT (MG/L)	0.7	0.6	0.6	0.7	0.9	0.8	1.0	1.0	1.0	0.7	0.6	0.4	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	51.11	41.77	42.85	51.42	63.25	59.04	63.84	63.74	63.97	44.14	41.53	24.66	54.47	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MOUNT FOREST
: MOUNT FOREST WPCP
: 120001381

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 2.45 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,599

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.32	1.86	3.00	2.81	1.97	1.74	1.37	1.44	1.56	1.78	2.41	1.81	2.01	
BOD5														
INFLUENT (MG/L)	75.0	97.0	99.0	48.0	96.0	111.0	204.0	165.0	129.0	122.0	97.0	111.0	112.8	
EFFLUENT (MG/L)	1.5	2.3	1.3	1.1	8.9	7.6	3.0	1.9	1.8	0.8	3.4	1.0	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.46	4.27	3.90	3.09	17.53	13.22	4.11	2.73	2.80	1.42	8.19	1.81	5.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	54.0	102.0	132.0	162.0	153.0	143.0	191.0	193.0	146.0	122.0	93.0	256.0	145.6	
EFFLUENT (MG/L)	4.0	7.0	4.5	9.0	14.7	7.3	6.7	5.7	5.0	4.1	5.6	4.1	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.28	13.02	13.50	25.29	28.95	12.70	9.17	8.20	7.80	7.29	13.49	7.42	13.07	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	ND	4.5	3.2	5.7	5.5	7.3	6.9	6.0	5.1	4.8	6.6	5.4	
EFFLUENT (MG/L)	0.2	ND	0.2	0.2	0.7	0.6	0.3	0.3	0.3	0.2	0.2	0.2	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.46	ND	0.60	0.56	1.37	1.04	0.41	0.43	0.46	0.35	0.48	0.36	0.60	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NANTICOKE
: JARVIS LAGOON
: 120001434
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
:

DESIGN CAPACITY : 0.85 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SANDUSK CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,174

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.92	0.90	1.01	1.18	0.96	0.97	0.72	0.87	0.53	0.54	0.71	0.63	0.83	
LAGOON DISCHARGE	ND	ND	82.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	82.96	
BOD5														
INFLUENT (MG/L)	91.0	103.0	210.0	54.0	96.0	176.0	130.0	191.0	233.0	197.0	ND	191.0	152.0	
EFFLUENT (MG/L)	ND	ND	16.9	ND	ND	ND	ND	ND	ND	ND	ND	22.0	19.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	17.06	ND	ND	ND	ND	ND	ND	ND	ND	13.86	25.0	
LOADING (KG/D)	ND	ND	17.06	ND	ND	ND	ND	ND	ND	ND	ND	13.86	16.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	147.0	199.0	212.0	105.0	99.0	180.0	176.0	278.0	241.0	390.0	ND	208.0	203.2	
EFFLUENT (MG/L)	ND	ND	37.9	ND	ND	ND	ND	ND	ND	ND	ND	30.5	34.2*	
CONCENTRATION LIMIT (MG/L)	ND	ND	38.27	ND	ND	ND	ND	ND	ND	ND	ND	19.21	25.0	
LOADING (KG/D)	ND	ND	38.27	ND	ND	ND	ND	ND	ND	ND	ND	19.21	28.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	7.4	7.2	5.0	6.6	6.3	7.1	8.8	10.7	11.0	ND	9.8	7.9	
EFFLUENT (MG/L)	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	0.50	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.33	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	NO
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE : 1989/08
END DATE : 1990
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY :
PLANT :
WORKS NUMBER :
TREATMENT :

: NANTICKE
: PORT DOVER WPCP
: 110000604
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.09 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.01	3.55	3.52	3.98	3.00	2.87	2.64	3.09	3.67	134.45	4.37	3.52	14.31	
BOD5														
INFLUENT (MG/L)	65.0	104.0	203.0	53.0	142.0	80.0	140.0	183.0	230.0	166.0	129.0	83.0	131.5	
EFFLUENT (MG/L)	14.3	32.1	12.7	10.3	16.3	11.2	9.9	20.7	89.5	66.7	26.8	36.0	28.9	
LOADING (KG/D)	43.04	113.95	44.70	40.99	48.90	32.14	26.13	63.96	328.46	8967.81	117.11	126.72	413.56	
PERCENT REMOVAL	78	69	94	81	89	86	93	89	61	60	79	57	78	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	104.0	138.0	152.0	97.0	173.0	90.0	132.0	131.0	90.0	113.0	101.0	94.0	124.6	
EFFLUENT (MG/L)	25.5	18.3	25.6	14.3	23.8	12.9	12.8	21.0	44.8	45.3	23.9	24.8	24.4	
LOADING (KG/D)	76.75	64.96	90.11	56.91	71.40	37.02	33.79	64.89	164.41	6090.58	104.44	87.29	349.16	
PERCENT REMOVAL	75	87	83	85	86	86	90	84	50	60	87	74	80	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.3	6.7	2.9	5.8	3.8	5.3	5.5	8.7	5.7	5.1	3.9	5.1	
EFFLUENT (MG/L)	0.6	0.5	0.5	0.3	0.5	0.3	0.4	0.8	1.94	1.34	0.7	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.80	1.77	1.76	1.19	1.50	0.86	1.05	2.47	6.97	174.78	3.05	2.46	10.02	

SUMMARY
COMPLIES
PARAM CRITERIA WITH CONC
BOD 50% YES
SS 70% YES
TP 1.0 MG/L NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - UPGRADING TO SECONDARY TREATMENT

START DATE END DATE ANTICIPATED COMPLIANCE
1991/03 1992/09 1993

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NANTICOKE
 PLANT : STELCO IND. PARK LAGOON
 WORKS NUMBER : 110003371
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 0.50 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CENTER CR
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.19	0.17	0.21	0.23	0.25	0.21	0.23	0.21	0.26	0.23	0.16	0.21	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.73	ND	ND	44.73	
BOD5														
INFLUENT (MG/L)	76.0	9.0	13.0	9.0	55.0	13.0	6.0	3.0	14.0	9.0	5.0	56.0	22.3	
EFFLUENT (MG/L)	1.7	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	2.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	0.28	ND	ND	ND	ND	ND	ND	ND	ND	0.75	ND	ND	0.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	153.0	62.0	28.0	30.0	55.0	44.0	29.0	15.0	36.0	16.0	34.0	263.0	63.8	
EFFLUENT (MG/L)	4.2	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	4.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	0.71	ND	ND	ND	ND	ND	ND	ND	ND	1.01	ND	ND	0.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	5.8	1.3	0.8	4.0	0.8	1.4	4.0	ND	0.6	1.2	1.1	2.2	
EFFLUENT (MG/L)	0.6	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.10	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	0.08	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY
 COMPLIES
 WITH CONC
 PARM CRITERIA
 BOD 30.0 MG/L YES
 SS 40.0 MG/L YES
 TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NANTICOKE
: TOWNSEND LAGOON
: 110003424
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY

: 2.095 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NANTICOKE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 537

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.13	0.14	0.16	0.25	0.15	0.16	0.16	0.13	0.16	0.20	0.20	0.17	0.17	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES
BOD	25.0 MG/L	WITH CONC
SS	25.0 MG/L	NO DIRECT DISCHARGE
TP	1.0 MG/L	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NANTICOKE
: WATERFORD LAGOON
: 110001195
: AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: 2.13 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NANTICOKE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,550

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.22	1.21	1.15	1.01	0.92	0.94	1.15	1.55	1.29	1.47	1.39	0.74	1.17	
LAGOON DISCHARGE	37.88	33.86	35.78	30.38	28.65	28.77	35.77	48.12	38.71	45.69	41.87	22.92	35.70	
BOD5														
INFLUENT (MG/L)	114.0	95.0	103.0	94.0	94.0	114.0	128.0	139.0	131.0	125.0	148.0	105.0	115.8	
EFFLUENT (MG/L)	9.2	15.0	17.1	14.8	16.7	9.4	10.6	7.7	16.9	18.5	19.2	14.6	14.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	11.22	18.15	19.66	14.94	15.36	8.83	12.19	11.93	21.80	27.19	26.68	10.80	16.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	141.0	115.0	152.0	135.0	119.0	141.0	129.0	108.0	124.0	102.0	137.0	97.0	125.0	
EFFLUENT (MG/L)	15.7	27.1	20.5	16.6	32.5	32.7	17.0	11.5	36.5	28.4	31.1	22.4	24.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	19.15	32.79	23.57	16.76	29.90	30.73	19.55	17.82	47.08	41.74	43.22	16.57	28.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	5.0	5.5	5.3	5.7	4.9	6.1	6.7	5.0	5.5	6.0	5.4	5.6	
EFFLUENT (MG/L)	0.2	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.24	0.48	0.46	0.30	0.27	0.18	0.34	0.31	0.25	0.44	0.55	0.22	0.35	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY COMPLIES
PARAM CRITERIA WITH CONC
BOD 30.0 MG/L YES
SS 40.0 MG/L YES
TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NIAGARA FALLS
: STAMFORD WPCP
: 120001363
: ROTATING BIOLOGICAL CONTACTOR
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 58.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CHIPPAWA POWER CANAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 67,835

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	52.01	47.80	58.40	60.30	68.20	64.80	56.61	52.74	53.60	54.50	63.04	44.55	56.38	
BOD5														
INFLUENT (MG/L)	43.0	87.0	59.0	138.0	87.0	46.0	96.0	84.0	98.0	88.0	46.0	67.0	78.3	
EFFLUENT (MG/L)	13.0	15.0	11.5	16.0	14.0	10.0	14.0	24.0	13.0	15.0	21.0	17.2	15.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	676.13	717.00	671.60	964.80	954.80	648.00	792.54	1265.76	696.80	817.50	1323.84	766.26	862.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	98.0	124.0	166.0	113.0	122.0	144.0	136.0	110.0	108.0	5.0	80.0	87.0	107.8	
EFFLUENT (MG/L)	20.6	18.0	23.0	17.0	16.0	17.0	18.0	18.0	19.6	18.0	18.0	17.6	18.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1071.40	860.40	1343.20	1025.10	1091.20	1101.60	1018.98	949.32	1050.56	981.00	1134.72	784.08	1037.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	4.1	3.7	5.6	5.1	4.8	5.9	4.6	4.2	4.7	3.1	3.7	4.5	
EFFLUENT (MG/L)	0.2	0.2	0.6	0.3	0.5	0.4	0.8	0.8	0.5	1.0	0.6	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	10.40	9.56	35.04	18.09	34.10	25.92	45.28	42.19	26.80	54.50	37.82	26.73	28.19	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY

START DATE END DATE ANTICIPATED
COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NIAGARA-ON-THE-LAKE
 PLANT : NIAGARA-ON-THE-LAKE LAGOON
 WORKS NUMBER : 120001238
 TREATMENT : AERATED CELL PLUS LAGOON
 : CONTINUOUS DISCHARGE
 :
 DESIGN CAPACITY : 3.84 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,210

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.60	2.30	3.20	4.20	5.30	4.50	3.13	2.91	3.00	2.89	3.25	2.61	3.32	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	104.0	45.0	104.0	46.0	117.0	94.0	97.0	130.0	189.0	207.0	110.0	100.0	111.9	
EFFLUENT (MG/L)	14.0	12.0	17.4	19.8	30.0	20.0	32.0	25.0	38.0	22.0	12.0	14.1	21.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	36.40	27.60	55.68	83.16	159.00	90.00	100.16	72.75	114.00	63.58	39.00	36.80	71.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	82.0	141.0	132.0	70.0	144.0	148.0	116.0	142.0	177.0	221.0	115.0	157.0	137.1	
EFFLUENT (MG/L)	17.0	15.0	22.5	35.0	26.0	30.0	33.0	34.0	35.0	28.0	27.0	14.5	26.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	44.20	34.50	72.00	147.00	137.80	135.00	103.29	98.94	105.00	80.92	87.75	37.84	87.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	6.5	6.1	3.3	6.2	6.8	6.5	5.8	8.5	6.3	5.6	3.9	6.0	
EFFLUENT (MG/L)	5.3	6.0	6.0	3.8	3.9	4.6	3.1	3.0	3.3	2.9	3.9	3.5	4.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	13.78	13.80	19.20	15.96	20.67	20.70	9.70	8.73	9.90	8.38	12.67	9.13	13.61	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORFOLK
 PLANT : PORT ROWAN LAGOON
 WORKS NUMBER : 110001113
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.25 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DEDRICH CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 744

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.27	0.25	0.28	0.29	0.27	0.29	0.26	0.25	0.26	0.25	0.30	0.27	0.27	
LAGOON DISCHARGE	ND	ND	ND	93.35	ND	ND	ND	ND	ND	ND	ND	ND	93.35	
BOD5														
INFLUENT (MG/L)	123.0	104.0	83.0	58.0	150.0	170.0	ND	116.0	173.0	215.0	110.0	39.0	121.9	
EFFLUENT (MG/L)	ND	ND	ND	9.5	ND	ND	ND	ND	ND	ND	ND	ND	9.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	2.75	ND	ND	ND	ND	ND	ND	ND	ND	2.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	190.0	198.0	96.0	50.0	132.0	127.0	ND	139.0	213.0	344.0	232.0	28.0	159.0	
EFFLUENT (MG/L)	ND	ND	ND	20.3	ND	ND	ND	ND	ND	ND	ND	ND	20.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	5.88	ND	ND	ND	ND	ND	ND	ND	ND	5.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.3	4.8	9.5	2.0	8.3	5.4	ND	5.4	8.9	13.4	5.4	2.1	6.8	
EFFLUENT (MG/L)	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND	0.19	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	NORTH DUMFRIES
PLANT	:	AVR PV WPCP
WORKS NUMBER	:	110001943
TREATMENT	:	EXTENDED AERAT
	:	PHOSPHORUS REMO
DESIGN CAPACITY	:	1.18 (

REGION	:	WEST CENTRAL
DISTRICT	:	
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	NITH RIVER
MINOR BASIN	:	ERIE
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,281

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.47	0.47	0.50	0.50	0.48	0.50	0.50	0.48	0.52	0.39	0.50	0.54	0.49	
BOD5														
INFLUENT (MG/L)	64.0	74.0	95.0	68.0	31.0	91.0	67.0	67.0	37.0	58.0	107.0	28.0	65.6	
EFFLUENT (MG/L)	7.9	2.4	5.3	2.5	7.3	4.5	4.5	8.9	21.5	11.9	7.8	21.0	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.71	1.12	2.65	1.25	3.50	2.25	2.25	4.27	11.18	4.64	3.90	11.34	4.31	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	32.0	109.0	126.0	75.0	33.0	102.0	86.0	79.0	61.0	54.0	79.0	25.0	71.8	
EFFLUENT (MG/L)	4.2	4.8	4.5	19.0	14.0	6.1	3.3	3.5	6.0	6.8	4.5	6.8	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.97	2.25	2.25	9.50	6.72	3.05	1.65	1.68	3.12	2.65	2.25	3.67	3.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.0	5.0	6.0	4.0	3.2	4.2	5.4	4.6	3.5	2.8	5.3	2.9	4.2	
EFFLUENT (MG/L)	0.5	0.5	0.9	0.7	0.7	0.5	0.4	0.4	0.5	0.5	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.23	0.23	0.45	0.35	0.33	0.25	0.20	0.19	0.26	0.19	0.30	0.32	0.29	

PARAM	SUMMARY	
	CRITERIA	COMPLIES WITH CONC
80D	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ORANGEVILLE
: ORANGEVILLE WPCP
: 110000542

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING

DESIGN CAPACITY

: 14.54 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : DUFFERIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREDIT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 16,515

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.28	8.26	9.61	10.75	10.09	11.71	8.22	7.68	7.19	7.25	9.96	7.94	9.00	
BOD5														
INFLUENT (MG/L)	160.0	174.0	208.0	168.0	162.0	96.0	117.0	131.0	166.0	168.0	189.0	175.0	161.2	
EFFLUENT (MG/L)	2.3	0.5	0.7	1.2	1.9	0.9	0.3	0.7	0.5	0.4	1.5	0.4	0.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	21.34	4.13	6.72	12.90	19.17	10.53	2.46	5.37	3.59	2.90	14.94	3.17	8.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	165.0	162.0	151.0	119.0	175.0	161.0	185.0	174.0	190.0	159.0	168.0	159.0	164.0	
EFFLUENT (MG/L)	2.7	2.7	3.4	4.5	3.6	2.7	2.1	2.2	2.3	1.7	2.0	2.3	2.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.05	22.30	32.67	48.37	36.32	31.61	17.26	16.89	16.53	12.32	19.92	18.26	24.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	7.7	5.7	7.1	9.2	4.5	5.7	5.8	6.4	6.7	5.7	6.5	6.3	
EFFLUENT (MG/L)	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.90	
LOADING (KG/D)	0.92	0.82	0.96	2.15	1.00	1.17	0.82	1.53	1.43	1.45	1.99	0.79	0.90	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PALMERSTON : PALMERSTON WPCP : WEST CENTRAL
 PLANT : PALMERSTON : 110001088 : WELLINGTON
 WORKS NUMBER : : : MINISTRY OF THE ENVIRONMENT
 TREATMENT : : : WALLACE DRAIN
 : : : HURON
 : : : GREAT LAKES
 DESIGN CAPACITY : 0.66 (1000 M3) : POPULATION SERVED : 2,050

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.16	0.91	1.32	1.47	0.88	0.78	0.63	0.68	0.74	0.85	1.36	0.92	0.98	
BOD5														
INFLUENT (MG/L)	130.0	111.0	295.0	78.0	104.0	147.0	137.0	131.0	132.0	182.0	103.0	171.0	143.4	
EFFLUENT (MG/L)	6.1	11.1	5.3	3.3	3.4	1.4	2.1	1.4	1.3	1.6	2.5	6.5	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.07	10.10	6.99	4.85	2.99	1.09	1.32	0.95	0.96	1.36	3.40	5.98	3.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	113.0	117.0	242.0	84.0	230.0	215.0	152.0	93.0	226.0	256.0	144.0	101.0	164.4	
EFFLUENT (MG/L)	12.2	15.7	11.8	15.6	9.1	9.0	4.8	3.4	5.4	7.5	5.2	5.6	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.15	14.28	15.57	22.93	8.00	7.02	3.02	2.31	3.99	6.37	7.07	5.15	8.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	5.6	5.4	4.3	ND	6.6	7.0	5.5	8.2	8.7	4.6	4.3	6.1	
EFFLUENT (MG/L)	0.3	0.3	0.4	0.2	0.3	0.7	0.9	0.5	0.5	0.3	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.34	0.27	0.52	0.29	0.26	0.54	0.56	0.34	0.37	0.25	0.54	0.36	0.39	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: PARIS	REGION	: WEST CENTRAL
PLANT	: PARIS WPCP	DISTRICT	: BRANT
WORKS NUMBER	: 110001097	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: GRAND RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
DESIGN CAPACITY	: 7.04 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 4,359

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.05	1.79	2.00	2.11	1.97	2.06	1.90	1.82	1.91	8.39	1.94	1.87	2.48	
BOD5														
INFLUENT (MG/L)	282.0	123.0	152.0	194.0	274.0	144.0	138.0	126.0	ND	174.0	339.0	149.0	190.5	
EFFLUENT (MG/L)	2.9	2.0	0.8	1.3	1.3	1.6	2.2	2.3	7.6	4.6	4.4	4.4	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.94	3.58	1.60	2.74	2.56	3.29	4.18	4.18	14.51	38.59	8.53	8.22	7.44	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	171.0	212.0	201.0	146.0	212.0	131.0	171.0	152.0	ND	157.0	498.0	136.0	198.8	
EFFLUENT (MG/L)	4.9	5.0	4.9	5.0	5.9	8.9	6.8	9.3	ND	6.2	9.3	7.6	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.04	8.95	9.80	10.55	11.62	18.33	12.92	16.92	ND	52.01	18.04	14.21	16.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.2	7.6	7.2	8.1	8.3	6.7	7.7	6.2	ND	5.4	12.4	7.4	7.8	
EFFLUENT (MG/L)	0.7	0.7	0.7	0.5	0.6	0.7	0.5	0.7	0.5	0.6	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.43	1.25	1.40	1.05	1.18	1.44	0.95	1.27	0.95	5.03	1.16	1.12	1.49	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT COLBORNE
 PLANT : SEAWAY WPCP
 WORKS NUMBER : 120001906
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 15.00 (1000 M3)
 REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WELLAND CANAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 15,825

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.79	8.61	9.30	12.65	14.46	14.35	10.17	10.65	12.62	12.10	14.49	8.88	11.51	
BOD5 INFLUENT (MG/L)	94.0	73.0	107.0	61.0	82.0	67.0	133.0	109.0	111.0	117.0	106.0	114.0	97.8	
EFFLUENT (MG/L)	71.6	20.0	6.7	14.2	20.1	23.3	8.7	25.3	38.5	39.7	33.6	18.8	26.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	700.96	172.20	62.31	179.63	290.64	334.35	88.47	269.44	485.87	480.37	486.86	166.94	307.32	
SUSPENDED SOLIDS INFLUENT (MG/L)	176.0	105.0	142.0	169.0	195.0	118.0	192.0	177.0	132.0	135.0	139.0	128.0	150.7	
EFFLUENT (MG/L)	5.4	5.3	6.2	7.9	7.1	4.9	3.4	2.8	4.3	4.5	7.1	6.3	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	52.86	45.63	57.66	99.93	102.66	70.31	34.57	29.82	54.26	54.45	102.87	55.94	62.15	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	8.5	8.2	9.2	7.9	6.8	5.8	6.3	6.6	5.5	8.1	6.9	6.4	7.2	
EFFLUENT (MG/L)	0.8	0.4	0.5	0.5	0.5	0.4	0.4	0.6	0.4	0.6	0.4	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	7.83	3.44	4.65	6.32	7.23	5.74	4.06	6.39	5.04	7.26	5.79	2.66	5.76	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	NO	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES

COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
 SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES
 FACILITY EXPANSION/UPGRADING - FILTRATION ADDED

ANTICIPATED		COMPLIANCE	
START DATE	END DATE	1989	1990
1989	1990/04	1989	1990
1989	1990	1989	1991

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SHELBOURNE
: SHELBOURNE WPCP
: 110000659
: OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 2.04 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : DUFFERIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BOYNE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.38	1.27	1.58	1.42	1.70	1.70	1.30	1.27	1.31	1.40	1.68	1.35	1.45	
BOD5														
INFLUENT (MG/L)	237.0	185.0	259.0	219.0	163.0	109.0	144.0	175.0	208.0	240.0	188.0	271.0	199.8	
EFFLUENT (MG/L)	3.9	5.0	8.0	11.4	0.5	0.5	0.5	0.5	0.5	0.5	1.4	3.1	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.38	6.35	12.64	16.18	0.85	0.85	0.65	0.63	0.65	0.70	2.35	4.18	4.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	162.0	198.0	173.0	116.0	148.0	140.0	194.0	192.0	186.0	149.0	141.0	158.0	163.1	
EFFLUENT (MG/L)	10.6	19.9	25.4	34.9	5.2	3.0	3.4	2.8	3.4	2.6	4.1	9.7	10.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.62	25.27	40.13	49.55	8.84	5.10	4.42	3.55	4.45	3.64	6.88	13.09	15.08	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	7.2	7.3	6.0	7.3	6.0	8.2	8.6	7.4	7.8	5.5	6.8	7.1	
EFFLUENT (MG/L)	0.4	0.7	0.8	1.8	0.5	0.6	0.6	0.7	0.5	0.3	0.2	0.4	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.55	0.88	1.26	2.55	0.85	1.02	0.78	0.88	0.65	0.42	0.33	0.54	0.87	

SUMMARY			COMPLIES
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED

START DATE 1990/01
END DATE 1990/03
ANTICIPATED COMPLIANCE 1991/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: SIMCOE	REGION	: WEST CENTRAL
PLANT	: SIMCOE WPCP	DISTRICT	: HALDIMAN-NORFOLK, REG. MUN.
WORKS NUMBER	: 110000677	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LYNN RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
	: EFFLUENT POLISHING	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 15.45 (1000 M3)	POPULATION SERVED	: 13,355

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	8.28	7.93	7.71	8.44	8.20	8.64	8.05	7.67	8.30	8.18	8.32	7.20	8.08	
BOD5														
INFLUENT (MG/L)	188.0	186.0	166.0	168.0	256.0	173.0	195.0	275.0	155.0	198.0	308.0	487.0	229.6	
EFFLUENT (MG/L)	2.0	1.4	1.0	1.1	0.8	4.6	8.3	6.1	0.7	2.3	0.7	0.7	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	16.56	11.10	7.71	9.28	6.56	39.74	66.81	46.78	5.81	18.81	5.82	5.04	20.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	178.0	888.0	189.0	141.0	178.0	165.0	220.0	227.0	165.0	183.0	240.0	421.0	266.3	
EFFLUENT (MG/L)	3.6	3.5	2.3	4.9	4.3	6.5	4.0	4.3	6.8	3.0	1.3	1.2	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.80	27.75	17.73	41.35	35.26	56.16	32.20	32.98	56.44	24.54	10.81	8.64	30.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	7.5	6.9	6.3	6.8	6.0	7.2	6.7	6.7	7.0	9.0	13.6	7.5	
EFFLUENT (MG/L)	0.2	0.6	0.2	0.1	0.1	0.2	0.6	0.4	0.3	0.4	0.4	0.2	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.65	4.75	1.54	0.84	0.82	1.72	4.83	3.06	2.49	3.27	3.32	1.44	2.42	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SOUTH DUMFRIES
: ST GEORGE PV WPCP
: 110003415
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 1.06 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : BRANT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FAIRCHILD CREEK (W. BR)
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 500

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.48	0.43	0.46	0.43	0.42	0.43	0.38	0.49	0.39	0.42	0.47	0.40	0.43	
BOD5														
INFLUENT (MG/L)	112.0	279.0	114.0	125.0	132.0	134.0	97.0	130.0	93.0	161.0	218.0	170.0	147.1	
EFFLUENT (MG/L)	4.1	0.7	2.1	0.7	0.5	0.8	0.6	0.6	1.2	0.8	0.2	0.3	1.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.96	0.30	0.96	0.30	0.21	0.34	0.22	0.29	0.46	0.33	0.09	0.12	0.47	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	129.0	193.0	188.0	169.0	180.0	196.0	141.0	227.0	235.0	186.0	278.0	249.0	198.3	
EFFLUENT (MG/L)	0.8	3.0	2.0	5.5	2.2	2.8	2.5	2.5	3.0	2.8	1.0	1.1	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.38	1.29	0.92	2.36	0.92	1.20	0.95	1.22	1.17	1.17	0.47	0.44	1.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	8.9	7.6	7.5	8.4	7.8	6.6	6.8	9.8	9.4	11.9	10.5	8.7	
EFFLUENT (MG/L)	0.8	0.9	0.9	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	
LOADING (KG/D)	0.38	0.38	0.41	0.25	0.21	0.21	0.19	0.19	0.15	0.21	0.28	0.24	0.26	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST CATHARINES
 PLANT : PORT DALHOUSIE WPCP
 WORKS NUMBER : 120001327
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 61.37 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 60,430

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	41.20	40.30	48.80	50.30	57.20	51.20	40.40	38.30	38.50	41.30	51.50	41.50	45.04	
BOD5 INFLUENT (MG/L)	133.0	76.0	104.0	56.0	54.0	51.0	50.0	139.0	73.0	282.0	53.0	79.0	95.8	
EFFLUENT (MG/L)	25.0	12.1	11.4	8.5	5.6	13.0	13.1	2.4	49.6	2.8	9.5	18.3	14.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1030.00	487.63	556.32	427.55	320.32	665.60	529.24	91.92	1909.60	115.64	489.25	759.45	644.07	
SUSPENDED SOLIDS INFLUENT (MG/L)	122.0	145.0	115.0	142.0	114.0	110.0	107.0	130.0	145.0	148.0	126.0	121.0	127.1	
EFFLUENT (MG/L)	11.3	10.0	11.3	10.0	9.2	9.5	107.0	8.8	8.0	94.1	12.2	9.5	25.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	465.56	403.00	551.44	503.00	526.24	486.40	4322.80	337.04	308.00	3886.33	628.30	394.25	1130.50	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	3.5	4.0	5.1	3.0	3.4	3.5	3.5	3.9	3.5	3.9	3.0	4.0	3.7	
EFFLUENT (MG/L)	0.7	0.7	0.7	0.5	0.4	0.6	0.8	0.7	1.9*	0.7	0.5	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	28.84	28.21	34.16	25.15	22.88	30.72	32.32	26.81	73.15	28.91	25.75	29.05	31.53	1

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			COMPLIES
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	NO	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES

START DATE	END DATE	COMPLIANCE
1989	1990	1991

EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING MODIFIED/UPGRADED
 FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES
 FACILITY EXPANSION/UPGRADING - UPGRADING SECONDARY CLARIFIERS
 FACILITY EXPANSION/UPGRADING - UPGRADING DISINFECTION PROCESS
 FACILITY EXPANSION/UPGRADING - UPGRADING HEADWORKS

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ST CATHARINES
: PORT WELLS WPCP
: 120001318

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 37.50 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORT WELLS HARBOUR
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 75,690

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	40.00	40.50	49.86	40.86	57.10	49.73	48.50	43.10	40.10	41.90	47.40	41.00	45.00	
BOD5														
INFLUENT (MG/L)	99.0	97.0	96.0	41.0	ND	66.0	87.0	134.0	109.0	128.0	156.0	518.0	139.2	
EFFLUENT (MG/L)	11.3	14.3	43.5	30.0	ND	7.0	53.7	15.6	24.3	18.4	49.0	14.2	26.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	452.00	579.15	2168.91	1552.68	ND	348.11	2604.45	672.36	974.43	770.96	2322.60	582.20	1183.50	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	232.0	260.0	243.0	180.0	213.0	199.0	236.0	242.0	284.0	320.0	223.0	257.0	240.8	
EFFLUENT (MG/L)	16.3	15.8	15.9	19.0	22.5	10.6	11.3	11.6	12.5	14.8	21.2	14.8	15.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	652.00	639.90	792.77	776.34	1284.75	527.13	548.05	499.96	501.25	620.12	1004.88	606.80	697.50	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	5.3	7.4	3.9	7.9	4.8	5.7	7.0	4.6	5.4	4.1	7.8	5.9	
EFFLUENT (MG/L)	0.9	0.6	0.8	1.0	0.6	0.6	1.0	0.8	0.8	0.7	0.7	0.7	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	36.00	24.30	39.88	40.86	34.26	29.83	48.50	34.48	32.08	29.33	33.18	28.70	36.00	
LOADING LIMIT (KG/D)														

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	NA	NO	NA
SS	25.0 MG/L	NA	YES	NA
TP	1.0 MG/L	NA	YES	NA

REMEDIAL MEASURES

COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING MODIFIED/UPGRADED
FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES
FACILITY EXPANSION/UPGRADING - UPGRADE SECONDARY CLARIFIERS
FACILITY EXPANSION/UPGRADING - UPGRADE HEADWORKS

START DATE 1989
END DATE 1990/10
COMPLIANCE 1991

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ST CATHARINES
: PORT WELLS WPCP
: 120001316

: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 37.50 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORT WELLS HARBOUR
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 75,690

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	40.00	40.50	49.86	40.86	57.10	49.73	48.50	43.10	40.10	41.90	47.40	41.00	45.00	
BOD5 INFLUENT (MG/L)	99.0	97.0	96.0	41.0	ND	66.0	87.0	134.0	109.0	128.0	156.0	518.0	139.2	
EFFLUENT (MG/L)	11.3	14.3	43.5	36.0	ND	7.0	53.7	15.6	24.3	18.4	49.0	14.2	26.3M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	452.00	579.15	2168.91	1552.68	ND	348.11	2604.45	672.36	974.43	770.96	2322.60	582.20	1183.50	
SUSPENDED SOLIDS INFLUENT (MG/L)	232.0	260.0	243.0	180.0	213.0	199.0	236.0	242.0	284.0	320.0	223.0	257.0	240.8	
EFFLUENT (MG/L)	16.3	15.8	15.9	19.0	22.5	10.6	11.3	11.6	12.5	14.8	21.2	14.8	15.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	652.00	639.90	792.77	776.34	1204.75	527.13	548.05	499.96	501.25	620.12	1004.88	606.80	697.50	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.3	5.3	7.4	3.9	7.9	4.8	5.7	7.0	4.6	5.4	4.1	7.8	5.9	
EFFLUENT (MG/L)	0.9	0.6	0.8	1.0	0.6	0.6	1.0	0.8	0.8	0.7	0.7	0.7	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	36.00	24.30	39.88	40.86	34.26	29.83	48.50	34.48	32.08	29.33	33.18	28.70	36.00	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING MODIFIED/UPGRADED
FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES
FACILITY EXPANSION/UPGRADING - UPGRADE SECONDARY CLARIFIERS
FACILITY EXPANSION/UPGRADING - UPGRADE HEADWORKS

START DATE END DATE ANTICIPATED
COMPLIANCE

1989 1990/10 1991

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WATERLOO
 PLANT : WATERLOO WPCP
 WORKS NUMBER : 110000793
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 72.73 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT :
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GRAND RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 66,627

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	42.22	38.37	42.16	39.21	37.14	40.10	31.69	33.25	34.08	35.95	37.54	33.38	37.09	
BOD5														
INFLUENT (MG/L)	177.0	198.0	154.0	180.0	302.0	ND	ND	ND	ND	202.0	229.0	240.0	210.3	
EFFLUENT (MG/L)	11.1	13.6	17.0	18.0	8.0	6.0	6.0	10.0	9.2	7.9	11.9	11.7	10.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	468.64	521.83	716.72	705.78	297.12	240.60	190.14	332.50	313.53	294.00	446.72	390.54	404.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	461.0	351.0	377.0	307.0	495.0	ND	ND	ND	ND	268.0	421.0	262.0	367.8	
EFFLUENT (MG/L)	25.9	26.6	35.0	39.0	14.0	9.0	10.0	16.0	19.5	15.3	22.5	18.1	20.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1093.49	1020.64	1475.60	1529.19	519.96	360.90	316.90	532.00	664.56	550.03	844.65	604.17	775.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	6.2	6.6	5.5	9.0	ND	ND	ND	ND	6.7	6.9	8.4	7.0	
EFFLUENT (MG/L)	1.3*	1.1*	1.5*	1.4*	0.7	0.8	1.0	0.7	1.0	0.8	1.1*	0.8	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5
LOADING (KG/D)	54.88	42.20	63.24	54.89	25.99	32.08	31.69	23.27	34.08	28.76	41.29	26.70	37.09	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE : 1989/08
 END DATE : 1990
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WELLAND
 PLANT : WELLAND WPCP
 WORKS NUMBER : 120001309
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 45.46 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WELLAND RIVER
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 47,205

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	32.56	28.46	42.49	40.22	41.91	40.31	32.33	25.25	38.54	30.61	42.37	29.08	35.34	
BOD5														
INFLUENT (MG/L)	109.0	53.0	31.0	64.0	61.0	42.0	77.0	134.0	142.0	101.0	97.0	223.0	94.5	
EFFLUENT (MG/L)	14.9	12.5	8.9	9.7	11.8	12.3	13.3	29.5	33.7	59.5	14.5	13.0	19.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	485.14	355.75	378.16	390.13	494.53	495.81	429.98	744.87	1298.79	1821.29	614.36	378.04	689.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	168.0	159.0	132.0	189.0	190.0	119.0	131.0	193.0	298.0	205.0	138.0	326.0	187.3	
EFFLUENT (MG/L)	13.9	11.3	11.0	12.4	21.5	19.4	12.4	17.6	28.4	56.6	29.0	25.1	21.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	452.58	321.59	467.39	498.72	901.06	782.01	400.89	444.40	1094.53	1732.52	1228.73	729.90	763.34	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	4.8	2.6	6.2	5.2	3.3	6.7	5.1	11.7	9.7	5.9	5.2	5.9	
EFFLUENT (MG/L)	0.6	1.0	3.4*	0.2	0.5	0.7	0.6	0.6	0.7	1.5*	1.0	1.0	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	19.53	28.46	144.46	8.04	20.95	28.21	19.39	15.15	26.97	45.91	42.37	29.08	35.34	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		
PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - UPGRADING BIOLOGICAL PROCESS
 FACILITY EXPANSION/UPGRADING - UPGRADING SECONDARY CLARIFIERS
 FACILITY EXPANSION/UPGRADING - UPGRADING PRIMARY CLARIFIERS
 FACILITY EXPANSION/UPGRADING - UPGRADING DISINFECTION PROCESS
 FACILITY EXPANSION/UPGRADING - NITRIFICATION ADDED
 FACILITY EXPANSION/UPGRADING - CHLORINATION ADDED

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1990	1991
1988	1990	1991
1988	1990	1991
1988	1990	1991
1988	1990	1991

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY :
PLANT :
WORKS NUMBER :
TREATMENT :

: WELLESLEY
: WELLESLEY WPCP
: 110001578
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NITH RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 950

DESIGN CAPACITY : 0.50 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.49	0.31	0.43	0.48	0.34	0.35	0.21	0.21	0.24	0.29	0.45	0.35	0.35	
BOD5														
INFLUENT (MG/L)	147.0	135.0	202.0	202.0	200.0	49.0	174.0	110.0	185.0	357.0	110.0	110.0	165.1	
EFFLUENT (MG/L)	2.2	2.6	1.4	1.3	1.8	0.5	3.3	0.5	0.5	2.7	0.8	0.4	1.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.07	0.80	0.60	0.62	0.61	0.17	0.69	0.10	0.12	0.78	0.36	0.14	0.53	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	136.0	129.0	330.0	128.0	182.0	133.0	183.0	179.0	222.0	394.0	140.0	176.0	194.3	
EFFLUENT (MG/L)	5.5	3.9	6.0	4.9	5.5	3.5	3.2	4.7	5.5	5.0	4.7	4.7	4.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.69	1.20	2.58	2.35	1.87	1.22	0.67	0.98	1.32	1.45	2.11	1.64	1.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	5.4	9.4	4.5	7.1	4.2	7.2	6.1	6.1	9.2	4.7	6.2	6.3	
EFFLUENT (MG/L)	0.3	0.4	0.3	0.7	0.5	0.6	0.6	0.8	0.9	0.1	0.7	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	
LOADING (KG/D)	0.14	0.12	0.12	0.33	0.17	0.21	0.12	0.16	0.21	0.02	0.31	0.14	0.18	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WEST LINCOLM
 PLANT : SMITHVILLE LAGOON
 WORKS NUMBER : 120001229
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 1.56 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : TWENTY MILE CREEK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,980

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.90	0.70	1.15	1.12	0.22	ND	ND	ND	ND	ND	ND	ND	0.82	
LAGOON DISCHARGE	ND	ND	18.18	105.02	50.01	ND	ND	ND	ND	ND	ND	ND	57.74	
BOD5														
INFLUENT (MG/L)	98.0	201.0	150.0	91.0	81.0	ND	ND	ND	ND	ND	ND	ND	124.2	
EFFLUENT (MG/L)	ND	ND	ND	16.5	19.6	ND	ND	ND	ND	ND	ND	ND	18.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	18.48	4.31	ND	ND	ND	ND	ND	ND	ND	14.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	269.0	143.0	89.0	117.0	ND	ND	ND	ND	ND	ND	ND	141.8	
EFFLUENT (MG/L)	ND	ND	ND	17.0	56.2	ND	ND	ND	ND	ND	ND	ND	36.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	19.04	12.36	ND	ND	ND	ND	ND	ND	ND	30.01	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	6.7	7.0	5.0	4.1	ND	ND	ND	ND	ND	ND	ND	6.0	
EFFLUENT (MG/L)	ND	ND	ND	5.3	4.8	ND	ND	ND	ND	ND	ND	ND	5.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	5.93	1.05	ND	ND	ND	ND	ND	ND	ND	4.18	
LOADING (KG/D)	ND	ND	ND	5.93	1.05	ND	ND	ND	ND	ND	ND	ND	4.18	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	
PARM	COMPLIES
CRITERIA	WITH CONC
BOD	30.0 MG/L YES
SS	40.0 MG/L YES
TP	NA NA

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY

START DATE END DATE ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WILMOT
PLANT : BADEN WPCP
WORKS NUMBER : 110001710
TREATMENT : EXTENDED AERATION

: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 0.92 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BADEN CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,152

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.75	0.60	0.77	0.82	0.75	0.80	0.53	0.49	0.52	0.56	0.75	0.55	0.66	
BOD5														
INFLUENT (MG/L)	206.0	400.0	229.0	230.0	363.0	581.0	359.0	332.0	463.0	237.0	350.0	482.0	352.7	
EFFLUENT (MG/L)	3.9	2.0	8.5	2.7	5.4	10.9	9.5	1.4	1.3	1.1	1.8	2.2	4.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.92	1.20	6.54	2.21	4.05	8.72	5.03	0.68	0.67	0.61	1.35	1.21	2.77	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	206.0	1,227.0	284.0	1,000.0	500.0	341.0	383.0	494.0	508.0	272.0	419.0	617.0	527.6	
EFFLUENT (MG/L)	5.7	7.5	9.8	10.0	11.0	16.3	28.9	4.3	4.8	3.4	5.8	5.4	10.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.27	4.50	7.54	14.76	8.25	13.04	15.31	2.10	2.49	1.90	4.35	2.97	6.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.5	9.6	6.8	6.9	10.5	11.3	10.5	12.5	9.9	9.9	8.8	14.2	10.0	
EFFLUENT (MG/L)	0.6	0.4	0.4	0.5	0.4	0.7	0.7	0.6	0.5	0.7	0.7	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	
LOADING (KG/D)	0.45	0.24	0.30	0.41	0.30	0.56	0.37	0.29	0.26	0.39	0.52	0.33	0.40	

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WILMOT
 PLANT : NEW HAMBURG LAGOON
 WORKS NUMBER : 110000506
 TREATMENT : AERATED CELL PLUS LAGOON
 : EFFLUENT POLISHING
 : CONTINUOUS DISCHARGE
 DESIGN CAPACITY : 2.72 (1000 M3)

REGION : WEST CENTRAL
 DISTRICT :
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : NITH RIVER
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,978

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.55	1.29	1.57	1.82	1.52	1.65	1.16	1.13	1.11	1.17	1.52	1.20	1.39	
LAGOON DISCHARGE	ND	ND	ND	57.23	65.40	43.90	30.13	32.48	36.53	27.59	42.33	20.23	39.54	
BOD5														
INFLUENT (MG/L)	112.0	164.0	103.0	176.0	104.0	141.0	112.0	176.0	143.0	164.0	128.0	172.0	141.3	
EFFLUENT (MG/L)	ND	ND	ND	3.2	1.6	0.7	1.1	1.0	0.3	2.6	1.9	0.9	1.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	5.82	2.43	1.15	1.27	1.13	0.33	3.04	2.88	1.08	2.09	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	135.0	233.0	213.0	240.0	245.0	180.0	178.0	211.0	233.0	183.0	154.0	259.0	205.3	
EFFLUENT (MG/L)	ND	ND	ND	3.8	3.0	4.8	3.0	3.8	4.5	1.7	1.5	3.3	3.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	6.91	4.56	7.92	3.48	4.29	4.99	1.98	2.28	3.96	4.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.4	10.0	7.2	8.7	6.3	8.5	10.0	9.9	16.0	14.3	9.1	19.5	11.2	
EFFLUENT (MG/L)	ND	ND	ND	0.5	0.3	0.4	0.5	0.4	0.3	0.5	0.6	0.6	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.91	0.45	0.66	0.58	0.45	0.33	0.58	0.91	0.72	0.70	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP NA	NA

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: WOOLWICH
: ELMIRA WPCP (COMBINED FLOW)
: 110000150
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CANAGAGIGUE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,090

DESIGN CAPACITY : 4.54 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.37	3.83	5.38	5.57	5.67	6.59	5.66	5.08	4.96	4.01	4.75	3.07	5.00	
BOD5														
INFLUENT (MG/L)	241.0	210.0	350.0	264.0	249.0	368.0	215.0	298.0	322.0	311.0	209.0	192.0	269.1	
EFFLUENT (MG/L)	2.6	3.3	4.0	3.1	2.6	2.9	0.8	2.8	1.8	5.5	6.4	3.6	3.3	
CONCENTRATION LIMIT (MG/L)													7.5	
LOADING (KG/D)	13.96	12.63	21.52	17.26	14.74	19.11	4.52	14.22	8.92	22.05	30.40	11.05	16.50	
LOADING LIMIT (KG/D)													34.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	232.0	222.0	359.0	260.0	346.0	497.0	279.0	352.0	419.0	218.0	99.0	110.0	282.8	
EFFLUENT (MG/L)	10.2	10.2	11.1	9.0	16.1	10.6	9.8	7.2	11.2	6.8	8.2	5.6	9.7	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	54.77	39.06	59.71	50.13	91.28	69.85	55.46	36.57	55.55	27.26	38.95	17.19	48.50	
LOADING LIMIT (KG/D)													68.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	5.4	8.5	5.6	5.7	26.1	ND	10.2	9.4	7.4	ND	6.5	9.1	
EFFLUENT (MG/L)	0.3	0.5	0.5	0.3	0.6	0.7	1.3	0.5	0.4	0.8	1.2	1.2	0.7	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	1.61	1.91	2.69	1.67	3.40	4.61	7.35	2.54	1.98	3.20	5.70	3.68	3.50	
LOADING LIMIT (KG/D)													4.53	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARM	CRITERIA	LOADING	CONC	COMPLIES WITH
BOD	7.5 MG/L	34.02 KG/D	YES	LOADING
SS	15.0 MG/L	68.04 KG/D	YES	YES
TP	1.0 MG/L	4.53 KG/D	YES	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEER 46 STUDY PHASE
FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES

START DATE END DATE ANTICIPATED COMPLIANCE

1990/09 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WOOLWICH
 PLANT : ELMIRA WPCP (COMBINED FLOW)
 WORKS NUMBER : 110000150
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 4.54 (1000 M3)
 :
 REGION : WEST CENTRAL
 DISTRICT :
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CANAGAGUIE CREEK
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 7,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.37	3.83	5.38	5.57	5.67	6.59	5.66	5.08	4.96	4.01	4.75	3.07	5.00	
BOD5														
INFLUENT (MG/L)	241.0	210.0	350.0	264.0	249.0	368.0	215.0	298.0	322.0	311.0	209.0	192.0	269.1	
EFFLUENT (MG/L)	2.6	3.3	4.0	3.1	2.6	2.9	0.8	2.8	1.8	5.5	6.4	3.6	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.96	12.63	21.52	17.26	14.74	19.11	4.52	14.22	8.92	22.05	30.40	11.05	16.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	232.0	222.0	359.0	260.0	346.0	497.0	279.0	352.0	419.0	218.0	99.0	110.0	282.8	
EFFLUENT (MG/L)	10.2	10.2	11.1	9.0	16.1	10.6	9.8	7.2	11.2	6.8	8.2	5.6	9.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	54.77	39.06	59.71	50.13	91.28	69.85	55.46	36.57	55.55	27.26	38.95	17.19	48.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	5.4	8.5	5.6	5.7	26.1	ND	10.2	9.4	7.4	ND	6.5	9.1	
EFFLUENT (MG/L)	0.3	0.5	0.5	0.3	0.6	0.7	1.3M	0.5	0.4	0.8	1.2M	1.2M	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.61	1.91	2.69	1.67	3.40	4.61	7.35	2.54	1.98	3.20	5.70	3.68	3.50	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 M - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PACH	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES:

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE
 FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES

START DATE END DATE COMPLIANCE
 1990/09 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: WOOLWICH
: ST. JACOBS PV WPCP
: 110001211
: OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CONESTOGO RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,266

DESIGN CAPACITY

: 0.95 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.83	0.67	0.90	0.90	0.71	0.78	0.55	0.70	0.66	0.82	1.05	0.89	0.79	
BOD5														
INFLUENT (MG/L)	70.0	162.0	134.0	66.0	203.0	197.0	86.0	195.0	307.0	197.0	433.0	509.0	213.3	
EFFLUENT (MG/L)	4.0	4.5	3.3	4.7	5.4	6.6	1.9	10.5	1.5	5.0	6.4	29.1	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.32	3.01	2.97	4.23	3.83	5.14	1.04	7.35	0.99	4.10	6.72	25.89	5.45	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	229.0	161.0	171.0	182.0	209.0	179.0	193.0	225.0	232.0	307.0	367.0	210.0	222.1	
EFFLUENT (MG/L)	12.1	10.1	9.1	14.8	24.9	29.7	9.8	13.7	13.3	17.6	47.9	47.1	20.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.04	6.76	8.19	13.32	17.67	23.16	5.39	9.59	8.77	14.43	50.29	41.91	16.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	4.7	5.8	4.0	4.8	5.9	6.8	8.9	7.5	6.9	7.8	7.4	6.4	
EFFLUENT (MG/L)	0.5	0.4	0.5	0.5	0.6	2.3*	0.8	1.0	0.7	0.9	0.9	1.5*	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	2
LOADING (KG/D)	0.41	0.26	0.45	0.45	0.42	1.79	0.44	0.70	0.46	0.73	0.94	1.33	0.71	

SUMMARY COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE END DATE ANTICIPATED COMPLIANCE

1993/05 1994

Central Region

③



Ministry
of the
Environment

Ontario





REGIONAL OFFICE

Toronto
7 Overlea Blvd.
M4E 1A8
(416) 424-3000

DISTRICT OFFICES

Barrie
12 Fairview Road
L4N 4P3
(7050) 726-1730

Halton-Peel
1235 Trafalgar Rd., Suite 401
Oakville
L6H 3P1
(416) 844-5747

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(416) 467-3013

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483 Bethune Dr.
Gravenhurst
POC 1G0
(705) 687-6647

Peterborough
139 George St. North
K9J 3G6
(705) 743-2792

York-Durham
7 Overlea Blvd.
M4H 1E8
(416) 467-3009

CENTRAL SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Conventional Activated Sludge	3	26	29	399.14	2,139.71	2,538.85
Contact Stabilization	1	2	3	1.05	4.50	5.55
Extended Aeration	11	13	24	35.05	35.11	70.16
High Rate	0	1	1	-	9.09	9.09
Oxidation Ditch	3	0	3	2.79	-	2.79
Communal Septic Tank	0	1	1	-	0.09	0.09
Convent. Lagoon Continuous	0	4	4	-	19.15	19.15
Conventional Lagoon Seasonal	1	7	8	0.58	11.25	11.83
Lagoon and Spray	1	0	1	0.61	-	0.61
Aerated Cell Plus Lagoon	0	2	2	-	4.91	4.91
Exfiltration Lagoon	1	0	1	1.36	-	1.36
TOTALS	21	56	77	440.58	2,223.81	2,664.39

1000M3/D: Thousands of cubic meters per day
 ADF: Average Daily Flow

CENTRAL SUMMARY - 1989

Treatment Type	Number			Average Daily Flow (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Conventional Activated Sludge	3	26	29	350.28	1,905.15	2,255.43
Contact Stabilization	1	2	3	0.78	4.52	5.30
Extended Aeration	11	13	24	15.46	18.79	34.25
High Rate	0	1	1	0.00	5.30	5.30
Oxidation Ditch	3	0	3	2.44	0.00	2.44
Communal Septic Tank	0	1	1	0.00	0.12	0.12
Convent. Lagoon Continuous	0	4	4	0.00	13.78	13.78
Conventional Lagoon Seasonal	1	7	8	0.82	8.25	9.07
Lagoon and Spray	1	0	1	0.32	0.00	0.32
Aerated Cell Plus Lagoon	0	2	2	0.00	4.48	4.48
Exfiltration Lagoon	1	0	1	0.80	0.00	0.80
TOTALS	21	56	77	370.90	1,960.39	1,331.27

1000M3/D: Thousands of cubic meters per day
ADF: Average Daily Flow

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALLISTON REGION : CENTRAL
 PLANT : ALLISTON WPCP DISTRICT : SIMCOE
 WORKS NUMBER : 110001220 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : EXTENDED AERATION WATERCOURSE : BOYNE RIVER
 : MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 3.50 (1000 M3) POPULATION SERVED : 4,674

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.33	3.12	3.36	3.28	3.46	3.65	3.45	3.76	3.75	3.56	3.70	3.20	3.47	
BOD5														
INFLUENT (MG/L)	130.5	181.0	159.5	123.0	138.0	138.5	114.0	110.5	125.5	156.0	160.0	275.0	151.0	
EFFLUENT (MG/L)	27.1	19.5	36.5	26.4	16.3	13.7	9.1	18.0	6.1	5.7	31.7	19.1	19.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	90.24	60.84	122.64	86.59	56.39	50.00	31.39	67.68	22.87	20.29	117.29	51.12	66.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	107.0	123.5	191.5	114.5	118.5	152.0	165.5	126.0	159.0	169.0	143.0	249.0	151.5	
EFFLUENT (MG/L)	26.5	21.8	22.5	22.5	12.5	10.2	10.8	24.0	10.3	15.6	37.2	19.2	19.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	88.24	68.01	75.60	73.80	43.25	37.23	37.26	90.24	38.62	55.53	137.64	61.44	67.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.0	10.1	9.8	6.7	8.2	7.1	6.0	9.8	7.5	8.3	10.1	11.3	8.6	
EFFLUENT (MG/L)	6.2	5.7	6.4	5.4	5.6	5.5	5.2	4.6	5.8	6.6	6.3	6.6	5.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	20.64	17.78	21.50	17.71	19.37	20.07	17.94	17.29	21.75	23.49	23.31	21.12	20.13	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE 1988/08

END DATE 1990/07

COMPLIANCE 1990/08

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ANSON HINDON MINDEN
: MINDEN WPCP
: 110002390
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 0.94 (1000 M3)

REGION : CENTRAL
DISTRICT : HALIBURTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GULL RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 984

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.58	0.57	0.61	0.69	0.92	0.62	0.58	0.60	0.59	0.64	0.71	0.76	0.66	
BOD5														
INFLUENT (MG/L)	223.0	125.0	134.0	64.0	83.0	124.0	113.0	39.0	82.0	156.0	102.0	94.0	111.6	
EFFLUENT (MG/L)	1.8	0.5	1.8	0.5	0.8	0.5	0.8	0.2	0.2	0.2	0.2	0.2	0.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.04	0.28	1.09	0.34	0.73	0.31	0.46	0.12	0.11	0.12	0.14	0.15	0.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	148.0	209.0	228.0	75.0	87.0	213.0	166.0	78.0	112.0	203.0	127.0	116.0	146.8	
EFFLUENT (MG/L)	1.5	7.5	9.5	2.0	19.8	1.8	2.8	2.8	2.5	1.6	0.5	0.8	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.87	4.27	5.79	1.38	18.21	1.11	1.62	1.68	1.47	1.02	0.35	0.60	2.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.7	5.6	6.2	3.2	4.4	5.5	5.7	3.2	5.3	6.0	4.8	4.9	5.4	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.1	0.1	0.2	0.9	0.2	0.4	0.2	0.2	0.1	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)	0.11	0.11	0.18	0.06	0.09	0.12	0.52	0.12	0.23	0.12	0.14	0.07	0.20	

SUMMARY	
PARAM CRITERIA	COMPLIES WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	: BARRIE	REGION	: CENTRAL
PLANT	: BARRIE WPCP	DISTRICT	: SIMCOE
WORKS NUMBER	: 120000578	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: KEMPENFELT BAY L. SIMCOE
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	:	MAJOR BASIN	: LAKES
DESIGN CAPACITY	: 27.27 (1000 M3)	POPULATION SERVED	: 50,000

[illegible]

PARAM	CRITERIA	LOADING		COMPLIES WITH
		NA	CONC	
BOD	NA	NA	NA	NA
SS	NA	NA	NA	NA
TP	0.3 MG/L	13.91	KG/D	YES

NOTE:
 BOD - HAS NO CRITERIA
 SS - HAS NO CRITERIA
 TP - ASSESSED ANNUALLY
 M - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: BARRIE	REGION	: CENTRAL
PLANT	: BARRIE WPCP	DISTRICT	: SIMCOE
WORKS NUMBER	: 120000578	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: KEMPENFELT BAY L. SIMCOE
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 27.27 (1000 M3)	POPULATION SERVED	: 50,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	27.98	28.59	30.94	32.95	34.21	35.51	31.93	32.53	34.58	32.60	32.68	32.97	32.29	
BOD5														
INFLUENT (MG/L)	277.0	200.0	211.0	207.0	184.0	206.0	131.0	176.0	158.0	200.0	187.0	135.0	189.3	
EFFLUENT (MG/L)	3.4	4.7	6.5	3.3	5.5	20.4	9.1	7.6	10.8	5.5	4.6	7.3	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	95.13	134.37	201.11	108.73	188.15	724.40	290.56	247.22	373.46	179.30	150.32	240.68	238.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	278.0	269.0	266.0	219.0	233.0	265.0	192.0	196.0	196.0	203.0	232.0	201.0	229.2	
EFFLUENT (MG/L)	4.6	4.8	6.7	5.2	3.6	20.4	13.0	8.5	9.8	8.2	8.4	12.7	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	128.70	137.23	207.29	171.34	123.15	724.40	415.09	276.50	338.88	267.32	274.51	418.71	284.15	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	6.3	6.7	5.4	5.3	5.2	5.5	5.1	4.5	6.0	5.6	2.9	5.4	
EFFLUENT (MG/L)	0.2	0.2	0.2	0.2	0.1	0.9	0.5	0.4	0.3	0.3	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	5.59	5.71	6.18	6.59	3.42	31.95	15.96	13.01	10.37	9.78	6.53	9.89	9.69	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	BEETON	
PLANT	:	BEETON LAGOON	
WORKS NUMBER	:	11000917	
TREATMENT	:	EXFILTRATION LAGOON	
	:		
DESIGN CAPACITY	:		1.36 (1000 M3)

REGION	:	CENTRAL
DISTRICT	:	SIMCOE
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	NO DISC.TO SURFACE WATER
MINOR BASIN	:	HURON
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	2,105

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.69 ND	0.61 ND	0.61 ND	0.78 ND	0.89 ND	0.82 ND	0.73 ND	0.78 ND	0.86 ND	0.84 ND	1.08 ND	0.87 ND	0.80	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	120.0 ND ND ND	171.5 ND ND ND	221.5 ND ND ND	46.5 ND ND ND	133.5 ND ND ND	103.5 ND ND ND	130.0 ND ND ND	201.0 ND ND ND	202.5 ND ND ND	127.5 ND ND ND	138.0 ND ND ND	120.5 ND ND ND	143.0	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	228.5 ND ND ND	125.0 ND ND ND	468.0 ND ND ND	131.5 ND ND ND	293.0 ND ND ND	107.5 ND ND ND	140.0 ND ND ND	171.0 ND ND ND	152.0 ND ND ND	129.0 ND ND ND	200.0 ND ND ND	144.5 ND ND ND	190.8	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	7.3 ND ND ND	8.6 ND ND ND	9.8 ND ND ND	7.6 ND ND ND	4.2 ND ND ND	4.6 ND ND ND	7.9 ND ND ND	6.7 ND ND ND	6.5 ND ND ND	5.8 ND ND ND	4.1 ND ND ND	5.5 ND ND ND	6.6	

PARAM	CRITERIA		COMPLIES
	NA	WITH CONC	
BOD	NA	NO DIRECT	DISCHARGE
SS	NA	NO DIRECT	DISCHARGE
P	NA	NO DIRECT	DISCHARGE

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
NH₃ - EXCEEDS EFFLUENT CRITERIA
SPACE (EG, " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

C-190

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT
ALBUQUERQUE	1	1	1
ALBUQUERQUE	2	2	2
ALBUQUERQUE	3	3	3
ALBUQUERQUE	4	4	4
ALBUQUERQUE	5	5	5
ALBUQUERQUE	6	6	6
ALBUQUERQUE	7	7	7
ALBUQUERQUE	8	8	8
ALBUQUERQUE	9	9	9
ALBUQUERQUE	10	10	10
ALBUQUERQUE	11	11	11
ALBUQUERQUE	12	12	12
ALBUQUERQUE	13	13	13
ALBUQUERQUE	14	14	14
ALBUQUERQUE	15	15	15
ALBUQUERQUE	16	16	16
ALBUQUERQUE	17	17	17
ALBUQUERQUE	18	18	18
ALBUQUERQUE	19	19	19
ALBUQUERQUE	20	20	20
ALBUQUERQUE	21	21	21
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ALBUQUERQUE	29	29	29
ALBUQUERQUE	30	30	30
ALBUQUERQUE	31	31	31
ALBUQUERQUE	32	32	32
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ALBUQUERQUE	40	40	40
ALBUQUERQUE	41	41	41
ALBUQUERQUE	42	42	42
ALBUQUERQUE	43	43	43
ALBUQUERQUE	44	44	44
ALBUQUERQUE	45	45	45
ALBUQUERQUE	46	46	46
ALBUQUERQUE	47	47	47
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ALBUQUERQUE	90	90	90
ALBUQUERQUE	91	91	91
ALBUQUERQUE	92	92	92
ALBUQUERQUE	93	93	93
ALBUQUERQUE	94	94	94
ALBUQUERQUE	95	95	95
ALBUQUERQUE	96	96	96
ALBUQUERQUE	97	97	9

- : BICROFT
- : CARDIFF LAGOON
- : 120001032
- : CONVENTIONAL LAGOON CONTINUOUS

DESIGN CAPACITY

0.45 (1000 M3)

REGION	: CENTRAL
DISTRICT	: HALIBURTON
OPERATING AUTHORITY	: MUNICIPAL
WATERCOURSE	: MINK CR. TO PAUDASH LAKE
MINOR BASIN	: ONTARIO
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 595

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	0.50 ND	0.87 ND	0.96 ND	0.45 ND	0.31 ND	0.37 ND	0.76 ND	0.50 ND	0.75 ND	0.61	
BOD5														
INFLUENT (MG/L)	ND	ND	135.0	10.0	148.0	ND	14.0	133.0	17.0	106.0	96.0	66.0	80.6	
EFFLUENT (MG/L)	ND	ND	2.4	12.3	17.7	ND	2.8	5.7	6.8	4.8	4.6	1.5	6.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	6.15	15.39	ND	1.26	1.76	2.51	3.64	2.30	1.12	3.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	53.0	84.0	ND	18.0	158.0	27.0	122.0	726.0	90.0	159.8	
EFFLUENT (MG/L)	ND	ND	42.0	17.0	26.0	ND	2.5	11.0	13.0	5.5	11.4	13.2	15.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	8.50	22.62	ND	1.12	3.41	4.81	4.18	5.70	9.90	9.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	2.4	1.6	0.9	ND	1.4	7.4	1.1	5.2	2.4	1.8	2.7	
EFFLUENT (MG/L)	ND	ND	0.7	1.9	0.8	ND	1.2	0.2	0.1	0.1	0.2	0.2	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.95	0.69	ND	0.54	0.06	0.03	0.07	0.10	0.15	0.37	

PARAM	CRITERIA	WITH CONC	COMPLIES
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

	30.0 MG/L	YES
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

- EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
12/1/2010	12/31/2010	100%
1/1/2011	1/31/2011	100%
2/1/2011	2/28/2011	100%
3/1/2011	3/31/2011	100%
4/1/2011	4/30/2011	100%
5/1/2011	5/31/2011	100%
6/1/2011	6/30/2011	100%
7/1/2011	7/31/2011	100%
8/1/2011	8/31/2011	100%
9/1/2011	9/30/2011	100%
10/1/2011	10/31/2011	100%
11/1/2011	11/30/2011	100%
12/1/2011	12/31/2011	100%
1/1/2012	1/31/2012	100%
2/1/2012	2/28/2012	100%
3/1/2012	3/31/2012	100%
4/1/2012	4/30/2012	100%
5/1/2012	5/31/2012	100%
6/1/2012	6/30/2012	100%
7/1/2012	7/31/2012	100%
8/1/2012	8/31/2012	100%
9/1/2012	9/30/2012	100%
10/1/2012	10/31/2012	100%
11/1/2012	11/30/2012	100%
12/1/2012	12/31/2012	100%
1/1/2013	1/31/2013	100%
2/1/2013	2/28/2013	100%
3/1/2013	3/31/2013	100%
4/1/2013	4/30/2013	100%
5/1/2013	5/31/2013	100%
6/1/2013	6/30/2013	100%
7/1/2013	7/31/2013	100%
8/1/2013	8/31/2013	100%
9/1/2013	9/30/2013	100%
10/1/2013	10/31/2013	100%
11/1/2013	11/30/2013	100%
12/1/2013	12/31/2013	100%
1/1/2014	1/31/2014	100%
2/1/2014	2/28/2014	100%
3/1/2014	3/31/2014	100%
4/1/2014	4/30/2014	100%
5/1/2014	5/31/2014	100%
6/1/2014	6/30/2014	100%
7/1/2014	7/31/2014	100%
8/1/2014	8/31/2014	100%
9/1/2014	9/30/2014	100%
10/1/2014	10/31/2014	100%
11/1/2014	11/30/2014	100%
12/1/2014	12/31/2014	100%
1/1/2015	1/31/2015	100%
2/1/2015	2/28/2015	100%
3/1/2015	3/31/2015	100%
4/1/2015	4/30/2015	100%
5/1/2015	5/31/2015	100%
6/1/2015	6/30/2015	100%
7/1/2015	7/31/2015	100%
8/1/2015	8/31/2015	100%
9/1/2015	9/30/2015	100%
10/1/2015	10/31/2015	100%
11/1/2015	11/30/2015	100%
12/1/2015	12/31/2015	100%
1/1/2016	1/31/2016	100%
2/1/2016	2/28/2016	100%
3/1/2016	3/31/2016	100%
4/1/2016	4/30/2016	100%
5/1/2016	5/31/2016	100%
6/1/2016	6/30/2016	100%
7/1/2016	7/31/2016	100%
8/1/2016	8/31/2016	100%
9/1/2016	9/30/2016	100%
10/1/2016	10/31/2016	100%
11/1/2016	11/30/2016	100%
12/1/2016	12/31/2016	100%
1/1/2017	1/31/2017	100%
2/1/2017	2/28/2017	100%
3/1/2017	3/31/2017	100%
4/1/2017	4/30/2017	100%
5/1/2017	5/31/2017	100%
6/1/2017	6/30/2017	100%
7/1/2017	7/31/2017	100%
8/1/2017	8/31/2017	100%
9/1/2017	9/30/2017	100%
10/1/2017	10/31/2017	100%
11/1/2017	11/30/2017	100%
12/1/2017	12/31/2017	100%
1/1/2018	1/31/2018	100%
2/1/2018	2/28/2018	100%
3/1/2018	3/31/2018	100%
4/1/2018	4/30/2018	100%

1992

1992

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BOBCAYGEON REGION : CENTRAL
 PLANT : BOBCAYGEON WPCP(SUMM. POP. SERVED(2480)) DISTRICT : VICTORIA
 WORKS NUMBER : 110002498 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : EXTENDED AERATION WATERCOURSE : BOBCAYGEON RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : ONTARIO
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 3.05 (1000 M3) POPULATION SERVED : 1,610

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.65	0.63	0.77	1.16	0.93	0.84	1.08	0.96	0.87	0.88	1.06	1.01	0.90	
BOD5														
INFLUENT (MG/L)	123.0	59.0	165.0	81.0	73.0	91.0	149.0	164.0	84.0	95.0	160.0	ND	113.1	
EFFLUENT (MG/L)	3.8	6.3	10.5	13.3	19.7	4.2	3.6	2.4	2.0	0.2	4.0	ND	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.47	3.96	8.08	15.42	18.32	3.52	3.88	2.30	1.74	0.17	4.24	ND	5.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	67.0	93.0	164.0	68.0	63.0	112.0	117.0	90.0	71.0	74.0	91.0	ND	91.8	
EFFLUENT (MG/L)	6.6	8.0	14.0	13.0	11.5	9.4	5.5	6.5	5.5	5.0	5.2	ND	8.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.29	5.04	10.78	15.08	10.69	7.89	5.94	6.24	4.78	4.40	5.51	ND	7.38	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	ND	4.9	3.0	3.3	3.2	5.5	5.2	4.5	4.1	4.3	ND	4.4	
EFFLUENT (MG/L)	0.2	0.2	0.5	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.13	0.12	0.38	0.34	0.37	0.16	0.21	0.09	0.08	0.17	0.21	0.30	0.18	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRACEBRIDGE LAGOON
 PLANT : BRACEBRIDGE LAGOON
 WORKS NUMBER : 120001979
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 2.06 (1000 M3)

REGION : CENTRAL
 DISTRICT : MUSKOKA, DIST. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : MUSKOKA RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.18	0.14	0.17	0.17	0.19	0.25	ND	ND	ND	0.05	0.70	0.03	0.21	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.18	60.93	40.80	38.30	
BOD5														
INFLUENT (MG/L)	210.0	144.0	104.0	109.0	129.0	135.0	ND	ND	ND	213.0	126.0	189.0	151.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	3.4	12.2	6.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	2.38	0.36	25.0	
LOADING (KG/D)													1.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.0	156.0	101.0	114.0	121.0	119.0	ND	ND	ND	172.0	93.0	115.0	127.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	4.9	12.9	8.2	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	3.43	0.38	25.0	
LOADING (KG/D)													1.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	6.7	5.4	4.4	4.9	5.9	ND	ND	ND	4.6	4.4	6.3	5.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.1	0.4	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	0.07	0.01	0.04	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRACEBRIDGE
 PLANT : BRACEBRIDGE WPCP
 WORKS NUMBER : 110000034
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 DESIGN CAPACITY : 3.19 (1000 M3)

REGION : CENTRAL
 DISTRICT : MUSKOKA, DIST. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : MUSKOKA RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,408

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.77	1.74	1.60	2.03	2.13	2.29	1.78	1.84	1.75	1.76	2.07	1.81	1.88	
BOD5 INFLUENT (MG/L)	210.0	144.0	104.0	109.0	129.0	135.0	168.0	188.0	272.0	213.0	126.0	189.0	165.6	
EFFLUENT (MG/L)	4.2	2.7	1.5	0.5	1.2	3.0	5.3	1.1	0.9	1.2	0.5	4.0	2.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.43	4.69	2.40	1.01	2.55	6.87	9.43	2.02	1.57	2.11	1.03	7.24	4.14	
SUSPENDED SOLIDS INFLUENT (MG/L)	156.0	156.0	101.0	114.0	121.0	119.0	158.0	154.0	273.0	172.0	93.0	115.0	144.3	
EFFLUENT (MG/L)	6.4	19.0	13.3	6.0	5.0	3.7	5.8	2.5	5.3	1.0	0.9	3.7	6.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.32	33.06	21.28	12.18	10.65	8.47	10.32	4.60	9.27	1.76	1.86	6.69	11.47	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.9	6.7	5.4	4.4	4.9	5.9	6.5	6.9	14.9	4.6	4.4	6.3	6.5	
EFFLUENT (MG/L)	0.3	0.5	0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.1	0.1	0.2	0.3	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.56	
	0.53	0.87	0.32	0.40	0.42	0.68	0.89	0.73	0.52	0.17	0.20	0.36		

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH	CONC
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

REMEDIAL MEASURES

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW

START DATE : 1989/03
 END DATE :
 COMPLIANCE :
 ANTICIPATED :
 1989/03

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BRADFORD
: BRADFORD WPCP
: 110000944
: EXTENDED AERATION
: PHOSPHORUS REMOVAL -CONTINUOUS
: EFFLUENT POLISHING
: 6.81 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SCHOMBERG RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,000

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.10	3.94	4.12	4.23	4.26	4.63	4.04	4.27	4.31	4.66	5.11	4.44	4.34	
BOD5 INFLUENT (MG/L)	194.5	202.0	237.0	166.0	147.0	149.5	169.0	169.0	176.5	210.0	191.5	245.0	188.1	
EFFLUENT (MG/L)	5.4	4.5	5.5	4.0	3.1	1.9	2.4	1.7	1.4	1.6	3.6	7.8	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.14	17.73	22.66	16.92	13.20	8.79	9.69	7.25	6.03	7.45	18.39	34.63	15.62	
SUSPENDED SOLIDS INFLUENT (MG/L)	262.5	303.0	502.5	152.0	178.0	153.5	216.0	348.4	358.3	523.4	574.9	418.9	332.6	
EFFLUENT (MG/L)	2.9	4.3	5.0	4.0	2.8	1.6	2.8	3.3	3.3	2.4	2.2	2.1	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.89	16.94	20.60	16.92	11.92	7.40	11.31	14.09	14.22	11.18	11.24	9.32	13.45	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.8	7.4	7.8	5.3	7.0	6.5	7.8	6.5	7.3	7.6	5.7	7.3	6.9	
EFFLUENT (MG/L)	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.82	0.78	0.82	0.84	0.42	0.46	0.80	0.85	0.86	0.93	1.02	0.44	0.87	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BRIGHTON
: BRIGHTON LAGOON
: 110000953
: AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: 3.86 (1000 M3)

DESIGN CAPACITY

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : L.ONT.PRESQUILLE BAY
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.99	2.47	3.10	3.49	3.80	3.46	1.78	1.85	2.57	3.45	3.98	ND	2.99	
LAGOON DISCHARGE	92.84	69.24	96.27	100.16	117.72	103.99	55.30	57.50	78.85	106.83	19.49	ND	81.65	
BOD5														
INFLUENT (MG/L)	72.0	52.0	81.0	72.0	27.0	53.0	29.0	83.0	77.0	64.0	79.0	77.0	63.8	
EFFLUENT (MG/L)	11.0	20.8	21.9	23.0	8.0	22.6	0.5	3.7	1.6	2.5	5.6	4.9	10.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	32.89	51.37	67.89	80.27	30.40	76.19	0.89	6.84	4.11	8.62	22.28	ND	31.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	66.0	60.0	62.0	50.0	36.0	74.0	47.0	86.0	69.0	74.0	72.0	76.0	64.4	
EFFLUENT (MG/L)	12.0	29.0	31.0	31.5	6.0	7.5	6.5	3.0	4.0	1.6	2.2	2.0	11.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	35.88	71.63	96.10	109.93	22.80	25.95	11.57	5.55	10.28	5.52	8.75	ND	34.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	2.8	5.0	2.9	1.8	3.6	2.7	4.7	4.6	1.4	4.0	4.2	3.5	
EFFLUENT (MG/L)	0.7	0.9	1.3*	1.0	0.7	0.4	0.5	0.1	0.3	0.5	0.3	0.2	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.09	2.22	4.03	3.49	2.66	1.38	0.89	0.18	0.77	1.72	1.19	ND	1.79	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	1.0 MG/L	NO	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BROCK
: BEAVERTON RIVER 1 LAGOON (SUNDERLAND)
: 120003496
: CONVENTIONAL LAGOON CONTINUOUS
: EXFILTRATION LAGOON

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 875

DESIGN CAPACITY : 0.75 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.28	0.28	0.27	0.30	0.34	0.31	0.26	0.24	0.27	0.25	0.28	0.27	0.28	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	680.0	210.0	320.0	377.0	175.0	9.0	310.0	230.0	828.0	258.0	423.0		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	347.3	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	352.0	356.0	200.0	188.0	328.0	424.0	7.0	156.0	342.0	273.0	238.0	482.0	278.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	41.0	88.0	8.5	10.5	ND	ND	ND	ND	26.4	18.5	3.9	19.1	27.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	DISCHARGE
BOD	NA	NO DIRECT	DISCHARGE
SS	NA	NO DIRECT	DISCHARGE
TP	NA	NO DIRECT	DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BROCK
 PLANT : BEAVERTON RIVER 2 LAGOON (CANNINGTON)
 WORKS NUMBER : 110001248
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.92 (1000 M3)
 REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : BEAVERTON RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,835

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.67	0.67	0.75	0.98	1.11	0.81	0.61	0.53	0.54	0.59	0.81	0.63	0.73	
LAGOON DISCHARGE	ND	ND	ND	ND	172.75	ND	ND	ND	ND	41.82	67.28	ND	93.95	
BOD5														
INFLUENT (MG/L)	27.0	98.0	190.0	146.0	66.0	119.0	172.0	290.0	112.0	81.0	159.0	167.0	135.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	5.6	ND	ND	ND	ND	11.9	9.9	ND	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	6.21	ND	ND	ND	ND	7.02	8.01	ND	6.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	217.0	442.0	206.0	254.0	162.0	168.0	200.0	262.0	212.0	234.0	152.0	295.0	233.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	4.8	ND	ND	ND	ND	6.5	4.4	ND	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	5.32	ND	ND	ND	ND	3.83	3.56	ND	3.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.5	13.0	10.1	4.6	ND	ND	ND	9.6	7.2	4.9	3.8	6.5	7.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.1	ND	ND	ND	ND	0.2	0.2	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.11	ND	ND	ND	ND	0.11	0.16	ND	0.15	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BROCK
PLANT : LAKE SIMCOE LAGOON (BEAVERTON)
WORKS NUMBER : 110000908
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,570

DESIGN CAPACITY : 1.73 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.54	1.35	1.99	2.45	2.69	2.59	1.60	1.58	1.50	1.61	2.41	1.66	1.91	
LAGOON DISCHARGE	ND	ND	ND	118.20	236.39	ND	ND	ND	ND	154.56	77.28	ND	146.61	
BOD5														
INFLUENT (MG/L)	237.0	123.0	367.0	103.0	111.0	156.0	176.0	344.0	169.0	520.0	89.0	158.0	214.4	
EFFLUENT (MG/L)	ND	ND	ND	8.5	3.6	ND	ND	ND	ND	8.8	13.5	ND	8.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	20.82	9.68	ND	ND	ND	ND	14.16	32.53	ND	16.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	216.0	180.0	80.0	108.0	184.0	196.0	373.0	545.0	842.0	678.0	80.0	136.0	301.5	
EFFLUENT (MG/L)	ND	ND	ND	8.8	3.5	ND	ND	ND	ND	4.5	5.2	ND	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	21.56	9.41	ND	ND	ND	ND	7.24	12.53	ND	10.51	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.2	9.7	9.5	4.8	ND	ND	ND	10.3	12.1	12.1	3.9	4.2	8.6	
EFFLUENT (MG/L)	ND	ND	ND	0.1	0.1	ND	ND	ND	ND	0.1	0.1	ND	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.24	0.26	ND	ND	ND	ND	0.16	0.24	ND	0.19	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BURLINGTON
 PLANT : SKYWAY WPCP
 WORKS NUMBER : 110000070
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 93.19 (1000 M3)

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : HAMILTON HARBOUR
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 120,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	63.03	60.40	65.90	76.26	71.54	66.54	66.65	67.42	66.89	64.59	72.69	62.14	67.00	
BOD5														
INFLUENT (MG/L)	223.0	255.0	215.0	173.0	203.0	203.0	170.0	250.0	287.0	217.0	147.0	205.0	212.3	
EFFLUENT (MG/L)	9.6	10.0	16.0	16.0	13.0	15.0	9.9	7.0	8.7	11.1	7.7	5.4	10.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	605.08	604.00	1054.40	1220.16	930.02	998.10	659.83	471.94	581.94	716.94	559.71	335.55	723.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	249.0	271.0	171.0	272.0	234.0	190.0	235.0	460.0	347.0	231.0	127.0	272.0	254.9	
EFFLUENT (MG/L)	5.7	8.3	22.6	9.0	12.0	14.7	11.0	6.5	6.3	6.8	8.2	5.4	9.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	359.27	501.32	1489.34	606.34	858.48	978.13	733.15	438.23	421.40	439.21	596.05	335.55	649.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	8.0	7.3	7.2	7.8	6.1	6.7	9.0	10.2	7.1	6.3	7.1	7.4	
EFFLUENT (MG/L)	0.7	0.8	1.0	0.5	0.7	0.7	0.8	0.8	0.7	0.7	1.0	0.6	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	44.12	48.32	65.90	38.13	50.07	46.57	53.32	53.93	46.82	45.21	72.69	37.28	53.60	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: CAMPBELLFORD
: CAMPBELLFORD WPCP
: 110000962
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,255

DESIGN CAPACITY : 5.91 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.29	4.78	5.68	7.35	7.13	7.24	6.16	5.78	5.77	4.90	6.11	5.74	5.99	
BOD5														
INFLUENT (MG/L)	30.0	75.0	122.5	55.5	27.0	21.0	17.0	32.0	33.5	100.5	30.5	59.0	50.3	
EFFLUENT (MG/L)	5.4	3.0	3.5	1.6	3.2	2.0	4.0	2.1	1.4	5.5	4.6	15.1	4.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.56	14.34	19.88	11.76	22.81	14.48	24.64	12.13	8.07	26.95	28.10	86.67	25.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	48.0	102.0	217.0	75.0	88.0	26.5	30.0	51.0	35.5	120.5	35.5	54.0	73.6	
EFFLUENT (MG/L)	9.7	8.8	9.5	4.8	6.0	9.0	6.3	5.8	7.8	7.9	8.4	7.8	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	51.31	42.06	53.96	35.28	42.78	65.16	38.80	33.52	45.00	38.71	51.32	44.77	46.12	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	3.4	5.1	2.0	1.8	1.6	1.2	2.0	2.1	3.2	1.5	2.6	2.7	
EFFLUENT (MG/L)	0.6	0.6	0.5	0.8	0.4	0.4	0.6	0.5	0.5	0.6	0.5	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.17	2.86	2.84	5.88	2.85	2.89	3.69	2.89	2.88	2.94	3.05	3.44	3.59	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COBOURG
 PLANT : COBOURG WPCP NO 1
 WORKS NUMBER : 120000097
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 DESIGN CAPACITY : 16.04 (1000 M3)

REGION : CENTRAL
 DISTRICT : NORTHUMBERLAND
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : COBOURG BROOK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.00	6.77	6.91	7.91	7.86	8.14	6.09	5.46	6.27	6.59	9.46	5.77	7.02	
BOD5														
INFLUENT (MG/L)	547.0	591.0	547.0	558.0	493.0	473.0	447.0	548.0	604.0	510.0	485.0	534.0	528.1	
EFFLUENT (MG/L)	11.3	33.3	41.7	29.1	12.8	10.5	8.4	8.7	13.1	4.4	13.6	45.4	19.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	79.10	225.44	288.14	230.18	100.60	85.47	51.15	47.50	82.13	28.99	128.65	261.95	136.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	256.0	354.0	241.0	230.0	229.0	209.0	245.0	244.0	337.0	322.0	249.0	239.0	262.9	
EFFLUENT (MG/L)	13.1	26.1	38.0	20.5	12.6	11.7	10.3	9.3	11.8	6.6	13.0	13.9	15.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	91.70	176.69	262.58	162.15	99.03	95.23	62.72	50.77	73.98	43.49	122.98	80.20	109.51	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	2.9	4.5	3.3	3.0	3.1	4.4	4.4	6.5	3.4	4.8	5.3	4.2	
EFFLUENT (MG/L)	0.6	1.1*	1.7*	0.5	0.9	1.1*	1.4*	1.1*	1.4*	0.6	0.7	1.6*	1.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	4.20	7.44	11.74	3.95	7.07	8.95	8.52	6.00	8.77	3.95	6.62	9.23	7.72	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
 EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED

START DATE END DATE ANTICIPATED COMPLIANCE

1989/12
 1989/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COBOURG
 PLANT : COBOURG WPCP NO 2
 WORKS NUMBER : 120003192
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL - CONTINUOUS
 :
 : 11.70 (1000 M3)
 DESIGN CAPACITY :

REGION : CENTRAL
 DISTRICT : NORTHUMBERLAND
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.89	2.86	2.91	3.70	3.91	4.55	3.46	3.17	3.46	4.30	6.49	5.03	3.89	
BOD5														
INFLUENT (MG/L)	157.0	184.0	173.0	124.0	156.0	176.0	135.0	149.0	131.0	121.0	107.0	100.0	142.8	
EFFLUENT (MG/L)	19.0	24.4	13.0	9.0	7.8	8.4	6.1	6.1	6.0	8.7	18.2	13.3	11.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	54.91	69.78	37.83	33.30	30.49	38.22	21.10	19.33	20.76	37.41	118.11	66.89	45.51	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	195.0	260.0	242.0	212.0	254.0	433.0	232.0	259.0	221.0	214.0	290.0	225.0	253.1	
EFFLUENT (MG/L)	16.5	11.1	9.4	9.1	9.2	10.2	10.2	11.1	6.9	13.5	13.1	7.0	10.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	47.68	31.74	27.35	33.67	35.97	46.41	35.29	35.18	23.87	58.05	85.01	35.21	41.23	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	3.0	4.3	3.8	3.1	5.9	4.9	3.3	5.6	3.5	3.3	3.2	4.0	
EFFLUENT (MG/L)	0.6	0.7	0.4	0.7	0.5	0.7	0.6	0.9	0.7	0.6	0.5	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.73	2.00	1.16	2.59	1.95	3.18	2.07	2.85	2.42	2.58	3.24	2.51	2.33	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COLBORNE
 PLANT : COLBORNE WPCP
 WORKS NUMBER : 120000088
 TREATMENT : SUTTON PROCESS
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 1.37 (1000 M3)

REGION : CENTRAL
 DISTRICT : NORTHUMBERLAND
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : COLBORNE CREEK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.94	1.63	1.38	0.67	1.27	1.30	1.54	1.21	ND	1.11	1.61	0.34	1.18	
BOD5														
INFLUENT (MG/L)	75.0	138.0	116.0	43.0	46.0	54.0	78.0	122.0	106.0	144.0	39.0	ND	87.4	
EFFLUENT (MG/L)	4.3	4.0	8.8	3.4	0.8	3.6	ND	0.7	0.8	2.3	ND	ND	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.04	6.52	12.14	2.27	1.01	4.68	ND	0.84	ND	2.55	ND	ND	3.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	168.0	178.0	45.0	56.0	77.0	120.0	165.0	174.0	532.0	78.0	ND	154.9	
EFFLUENT (MG/L)	5.4	5.6	6.5	6.5	0.5	6.0	ND	2.5	4.5	0.8	ND	ND	4.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.07	9.12	8.97	4.35	0.63	7.80	ND	3.02	ND	0.88	ND	ND	5.07	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	ND	4.7	3.3	2.3	2.9	5.4	5.8	5.8	6.4	2.5	ND	4.5	
EFFLUENT (MG/L)	0.3	ND	0.2	0.3	0.2	0.6	ND	1.1	0.6	0.5	ND	ND	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.28	ND	0.27	0.20	0.25	0.78	ND	1.33	ND	0.55	ND	ND	0.59	

SUMMARY		COMPLIES
PARAM CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	INSUFFICIENT DATA

NOTE:
 BOD - HAS NO CRITERIA
 SS - HAS NO CRITERIA
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: COLDWATER
: COLDWATER WPCP
: 110001596
: EXTENDED AERATION

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : COLDWATER RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,015

DESIGN CAPACITY : 0.54 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.44	0.35	0.57	0.62	0.64	0.56	0.39	0.36	0.32	0.33	0.43	0.50	0.46	
BOD5														
INFLUENT (MG/L)	101.0	70.5	68.0	85.0	73.1	84.6	54.1	122.0	107.0	89.9	51.4	207.0	92.8	
EFFLUENT (MG/L)	3.5	4.5	7.0	5.9	4.0	5.4	7.5	3.9	4.8	2.9	5.9	1.3	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.54	1.57	3.99	3.65	2.56	3.02	2.92	1.40	1.53	0.95	2.53	0.65	2.16	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	69.0	78.0	78.0	79.0	117.5	85.9	70.5	104.0	131.0	90.5	52.5	249.5	100.5	
EFFLUENT (MG/L)	3.5	5.3	6.0	5.6	5.8	7.5	8.5	4.3	6.3	2.4	8.3	7.9	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.54	1.85	3.42	3.47	3.71	4.20	3.31	1.54	2.01	0.79	3.56	3.95	2.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	3.3	5.1	3.8	4.8	5.4	5.4	5.6	5.3	3.6	2.8	8.7	4.9	
EFFLUENT (MG/L)	2.6	2.6	3.0	2.6	3.5	4.0	5.2	4.6	4.5	4.3	2.3	3.1	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.14	0.91	1.71	1.61	2.24	2.24	2.02	1.65	1.44	1.41	0.98	1.55	1.61	

SUMMARY COMPLIES
WITH CONC
PARAM CRITERIA
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP NA NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

[illegible]

COLLINGWOOD	24.54
COLLINGWOOD WPCP	24.54
120000550	24.54
CONVENTIONAL ACTION	24.54
PHOSPHORUS REMOVAL	24.54
	24.54
	24.54

DESIGN CAPACITY

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REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,135

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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	19.11	17.45	20.15	21.56	20.81	14.34	10.58	11.53	11.71	12.51	13.95	12.91	15.55	
BOD5														
INFLUENT (MG/L)	181.0	200.0	175.0	205.0	197.0	187.0	278.0	344.0	271.0	182.0	208.0	209.0	219.8	
EFFLUENT (MG/L)	6.2	8.8	6.3	6.4	6.6	7.9	9.0	10.9	9.1	9.3	8.1	11.0	8.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	118.48	153.56	126.94	137.98	137.34	113.28	95.22	125.67	106.56	116.34	112.99	142.01	129.07	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	130.0	162.0	216.0	145.0	176.0	195.0	266.0	179.0	161.0	145.0	163.0	147.0	173.8	
EFFLUENT (MG/L)	9.2	10.1	10.6	9.6	10.9	13.4	14.2	13.2	9.4	9.6	12.3	15.0	11.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	175.81	176.24	213.59	206.97	226.82	192.15	150.23	152.19	110.07	120.09	171.58	193.65	178.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	7.1	7.6	7.0	6.0	8.0	6.8	7.3	4.7	5.7	4.8	4.4	6.2	
EFFLUENT (MG/L)	0.5	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	9.55	13.96	12.09	10.78	10.40	7.17	5.29	5.76	5.85	6.25	6.97	5.16	7.78	

PARM CRITERIA COMPLIES WITH CONC

PARAM	CRITERIA	WITH
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

W - EXCEEDS EFFLUENT CRITERIA

EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1982 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: COOKSTOWN WPCP
: 110002265
: SUTTON PROCESS
: PHOSPHORUS REMOVAL-CONTINUOUS
: SEASONAL DISCHARGE
: 0.82 (1000 M3)

DESIGN CAPACITY

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : INNISFIL CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,027

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.18	0.23	0.22	0.21	0.22	0.20	0.22	0.27	0.30	0.36	0.37	0.25	
BOD5														
INFLUENT (MG/L)	121.5	137.0	114.5	196.0	83.5	182.5	106.0	114.5	182.0	223.0	155.5	163.0	148.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	4.1	ND	ND	ND	ND	ND	0.4	ND	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.86	ND	ND	ND	ND	ND	0.14	ND	0.56	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	155.5	168.0	199.0	580.0	158.5	352.0	170.0	131.0	201.5	191.0	178.5	240.0	227.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	9.0	ND	ND	ND	ND	ND	1.1	ND	5.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	1.89	ND	ND	ND	ND	ND	0.39	ND	1.28	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.4	9.1	5.9	8.6	5.4	8.4	6.5	6.0	10.2	8.5	8.3	8.0	7.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	0.4	ND	0.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	0.14	ND	0.08	

SUMMARY
COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP NA

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
W - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: DYSART-ET-AL
: HALIBURTON WPCP
: 110001603
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 0.45 (1000 M3)

REGION : CENTRAL
DISTRICT : HALIBURTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DRAG R. TO GRASS LAKE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 920

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.28	0.26	0.33	0.37	0.37	0.32	0.27	0.21	0.23	0.24	0.34	0.29	0.29	
BOD5														
INFLUENT (MG/L)	147.0	190.0	42.0	135.0	29.0	132.0	163.0	134.0	50.0	50.0	70.0	26.0	97.3	
EFFLUENT (MG/L)	3.9	0.5	0.5	0.5	14.8	10.0	3.4	3.8	0.5	1.8	5.0	0.6	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.09	0.13	0.16	0.18	5.47	3.20	0.91	0.79	0.11	0.43	1.70	0.17	1.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	230.0	250.0	51.0	124.0	40.0	49.0	195.0	143.0	64.0	39.0	83.0	28.0	108.0	
EFFLUENT (MG/L)	4.0	8.0	5.0	10.5	13.0	8.8	6.5	2.5	5.0	4.9	5.1	6.6	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.12	2.08	1.65	3.88	4.81	2.81	1.75	0.52	1.15	1.17	1.73	1.91	1.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.6	7.8	1.2	4.8	ND	4.8	8.3	6.3	3.0	3.9	2.6	1.4	5.3	
EFFLUENT (MG/L)	0.5	0.6	0.3	0.5	ND	0.5	0.6	0.7	0.4	0.5	0.5	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.14	0.15	0.09	0.18	ND	0.16	0.16	0.14	0.09	0.12	0.20	0.14	0.15	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

START DATE END DATE
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST GWILLIMBURY
 PLANT : HOLLAND LANDING LAGOON
 WORKS NUMBER : 120001620
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 1.36 (1000 M3)

REGION : CENTRAL
 DISTRICT : YORK, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : HOLLAND RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.27	1.06	1.03	1.21	1.26	0.89	0.89	0.89	1.04	1.30	1.42	1.14	1.12	
LAGOON DISCHARGE	ND	ND	ND	ND	191.00	ND	ND	ND	ND	ND	91.68	ND	141.34	
BOD5														
INFLUENT (MG/L)	139.0	ND	202.0	132.0	104.0	84.0	ND	144.0	76.0	182.0	115.0	102.0	128.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	12.9	ND	ND	ND	ND	ND	12.8	ND	12.9	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	16.25	ND	ND	ND	ND	ND	18.17	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	16.25	ND	ND	ND	ND	ND	18.17	ND	14.45	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	252.0	ND	276.0	91.0	117.0	83.0	ND	120.0	83.0	188.0	124.0	116.0	145.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	19.1	ND	ND	ND	ND	ND	26.8	ND	23.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	24.06	ND	ND	ND	ND	ND	38.05	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	24.06	ND	ND	ND	ND	ND	38.05	ND	25.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.0	ND	5.2	ND	7.0	5.3	ND	7.1	7.9	11.1	7.9	5.8	7.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.4	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.88	ND	ND	ND	ND	ND	0.56	ND	0.67	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: EAST GWILLIMBURY	REGION	: CENTRAL
PLANT	: MOUNT ALBERT WPCP	DISTRICT	: YORK, REG. MUN.
WORKS NUMBER	: 120001853	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: MOUNT ALBERT CREEK
	: PHOSPHORUS REMOVAL - CONTINUOUS	MINOR BASIN	: HURON
	: SEASONAL DISCHARGE	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.68 (1000 M3)	POPULATION SERVED	: 1,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.31	0.31	0.30	0.35	0.37	0.39	0.34	0.34	0.36	0.34	0.39	0.36	0.35	
BOD5														
INFLUENT (MG/L)	125.0	15.0	120.0	135.0	160.0	118.0	ND	98.0	19.0	164.0	78.0	61.0	99.4	
EFFLUENT (MG/L)	33.0	ND	ND	ND	ND	ND	ND	ND	ND	10.6	15.1	ND	19.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.23	ND	ND	ND	ND	ND	ND	ND	ND	3.60	5.88	ND	6.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	73.0	173.0	166.0	105.0	75.0	ND	150.0	46.0	71.0	153.0	94.0	109.0	
EFFLUENT (MG/L)	19.8	ND	ND	ND	ND	ND	ND	ND	ND	28.8	29.3	ND	26.0M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.13	ND	ND	ND	ND	ND	ND	ND	ND	9.79	11.42	ND	9.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	15.0	9.3	ND	6.6	6.6	ND	5.9	3.3	8.7	5.0	4.1	7.2	
EFFLUENT (MG/L)	0.4	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0.3	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.12	ND	ND	ND	ND	ND	ND	ND	ND	0.10	0.11	ND	0.11	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ELMVALE LAGOON : REGION : CENTRAL
 PLANT : ELMVALE LAGOON : DISTRICT : SIMCOE
 WORKS NUMBER : 110000169 : OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS : WATERCOURSE : WYE RIVER
 : : MINOR BASIN : HURON
 : : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 0.75 (1000 M3) : POPULATION SERVED : 1,565

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	1.21	1.42	1.63	1.59	1.25	0.95	0.98	1.11	1.39	1.59	1.26	1.31	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	126.0	152.0	86.0	154.0	142.0	208.0	212.0	258.0	183.0	149.0	364.0	184.9	
EFFLUENT (MG/L)	ND	13.6	35.6	24.4	11.7	16.0	17.1	21.2	16.0	20.5	21.1	ND	19.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	16.45	50.55	39.77	18.60	20.00	16.24	20.77	17.76	28.49	33.54	ND	25.81	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	184.0	262.0	109.0	464.0	111.0	318.0	140.0	291.0	288.0	191.0	1,120.0	316.2	
EFFLUENT (MG/L)	ND	25.0	21.5	24.0	73.0	12.0	9.0	28.0	30.5	35.0	3.3	ND	26.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	30.25	30.53	39.12	116.07	15.00	8.55	27.44	33.85	48.65	5.24	ND	34.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	7.4	5.9	10.4	8.9	6.6	8.9	8.7	8.2	7.6	7.5	8.0	
EFFLUENT (MG/L)	ND	ND	4.5	3.0	2.8	3.5	3.8	3.9	4.0	2.6	3.4	ND	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	6.39	4.89	4.45	4.37	3.61	3.82	4.44	3.61	5.40	ND	4.59	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	
PARAM CRITERIA	COMPLIES WITH CONC
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESSA REGION : CENTRAL
 PLANT : ANGUS WPCP DISTRICT : SIMCOE
 WORKS NUMBER : 110003282 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : EXTENDED AERATION WATERCOURSE : NOTTAWASAGA RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 3.39 (1000 M3) POPULATION SERVED : 2,560

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.13	0.94	1.02	1.14	1.16	1.18	0.90	0.83	0.87	0.92	1.12	1.09	1.03	
BOD5														
INFLUENT (MG/L)	130.5	179.0	170.5	51.0	157.5	123.0	151.5	148.0	129.5	223.5	199.0	196.0	154.9	
EFFLUENT (MG/L)	4.1	3.1	6.5	1.6	2.6	2.5	3.0	3.2	3.6	6.3	3.0	1.8	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.63	2.91	6.63	1.82	3.01	2.95	2.70	2.65	3.13	5.79	3.36	1.96	3.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	127.0	192.0	222.0	102.5	245.0	124.5	149.0	145.5	289.5	256.0	168.0	261.0	190.2	
EFFLUENT (MG/L)	5.4	6.5	9.5	8.0	13.3	10.3	6.6	5.8	8.8	6.7	3.9	4.6	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.10	6.11	9.69	9.12	15.42	12.15	5.94	4.81	7.65	6.16	4.36	5.01	7.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	7.8	7.5	3.7	6.7	4.3	6.7	7.7	8.3	8.5	7.3	8.2	7.0	
EFFLUENT (MG/L)	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.2	0.3	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.11	0.18	0.20	0.22	0.34	0.23	0.27	0.24	0.34	0.18	0.33	0.21	0.21	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: FENELON FALLS
: FENELON FALLS WPCP(SUMMER POPSERVE 3136)
: 110001612
: OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FENELON RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,617

DESIGN CAPACITY : 1.00 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.88	0.83	1.06	1.27	1.23	0.96	0.91	0.89	0.88	1.19	1.36	1.05	1.04	
BOD5														
INFLUENT (MG/L)	114.0	106.0	126.0	65.5	82.0	127.0	170.0	174.0	124.0	105.0	68.0	92.0	112.6	
EFFLUENT (MG/L)	3.8	17.5	6.0	9.6	37.3	6.0	5.1	0.9	3.2	0.7	11.8	16.4	9.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.34	14.52	6.36	12.19	45.87	5.76	4.64	0.80	2.81	0.83	16.04	17.22	10.30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	150.0	132.0	83.5	78.0	121.0	172.0	162.0	129.0	83.0	72.0	88.0	114.2	
EFFLUENT (MG/L)	9.4	23.5	15.0	19.3	32.0	13.6	12.0	5.0	8.0	5.0	9.0	10.4	13.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.27	19.50	15.90	24.51	39.36	13.05	10.92	4.45	7.04	5.95	12.24	10.92	14.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.6	6.3	4.5	6.0	3.8	7.7	8.1	6.3	5.4	4.2	4.9	5.6	
EFFLUENT (MG/L)	0.2	0.7	0.4	1.0	0.8	0.3	0.3	0.3	0.5	0.3	0.4	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.17	0.58	0.42	1.27	0.98	0.28	0.27	0.26	0.44	0.35	0.54	0.31	0.52	

SUMMARY

COMPLIES
WITH CONC
PARM CRITERIA
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L YES

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY
NO REMEDIAL MEASURES DESCRIPTION

START DATE END DATE
ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : GEORGINA
 PLANT : KESWICK WPCP
 WORKS NUMBER : 120001755
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 12.07 (1000 M3)

REGION : CENTRAL
 DISTRICT : YORK, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : COOK BAY(L.SINCOE)
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 8,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.37	3.58	3.65	4.44	4.85	4.56	3.78	3.96	3.83	4.20	4.92	4.41	4.13	
BOD5														
INFLUENT (MG/L)	104.0	116.0	99.0	89.0	92.0	72.0	105.0	114.0	132.0	174.0	113.0	109.0	109.9	
EFFLUENT (MG/L)	2.3	0.5	0.9	0.7	0.5	0.5	0.4	0.3	0.6	0.3	0.3	0.3	0.6	
CONCENTRATION LIMIT (MG/L)													10.0	
LOADING (KG/D)	7.75	1.79	3.28	3.10	2.42	2.28	1.51	1.18	2.29	1.26	1.47	1.32	2.48	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	ND	180.0	116.0	190.0	149.0	146.0	137.0	146.0	143.0	191.0	108.0	149.0	
EFFLUENT (MG/L)	2.2	3.0	3.3	4.0	5.3	1.6	2.5	4.2	2.0	0.5	0.5	0.6	2.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	7.41	10.74	12.04	17.76	25.70	7.29	9.45	16.63	7.66	2.10	2.46	2.64	10.33	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	6.2	7.1	5.8	4.8	4.6	4.5	5.7	6.4	6.2	6.4	5.2	5.9	5.7	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	0.33	0.35	0.73	0.88	0.97	0.91	0.75	0.79	1.14	1.26	0.98	0.88	0.83	
LOADING LIMIT (KG/D)													3.62	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - HAS NO CRITERIA
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			
PARAM	CRITERIA	LOADING	COMPLIES WITH
BOD	10.0 MG/L	NA	CONC
SS	NA	NA	LOADING
TP	0.3 MG/L	3.62 KG/D	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GEORGINA
 PLANT : KESWICK WPCP
 WORKS NUMBER : 120001755
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 12.07 (1000 M3)

REGION : CENTRAL
 DISTRICT : YORK, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : COOK BAY(L.SIMCOE)
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 8,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.37	3.58	3.65	4.44	4.85	4.56	3.78	3.96	3.83	4.20	4.92	4.41	4.13	
BOD5														
INFLUENT (MG/L)	104.0	116.0	99.0	89.0	92.0	72.0	105.0	114.0	132.0	174.0	113.0	109.0	109.9	
EFFLUENT (MG/L)	2.3	0.5	0.9	0.7	0.5	0.5	0.4	0.3	0.6	0.3	0.3	0.3	0.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.75	1.79	3.28	3.10	2.42	2.28	1.51	1.18	2.29	1.26	1.47	1.32	2.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	ND	180.0	116.0	190.0	149.0	146.0	137.0	146.0	143.0	191.0	108.0	149.0	
EFFLUENT (MG/L)	2.2	3.0	3.3	4.0	5.3	1.6	2.5	4.2	2.0	0.5	0.5	0.6	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.41	10.74	12.04	17.76	25.70	7.29	9.45	16.63	7.66	2.10	2.46	2.64	10.33	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	7.1	5.8	4.8	4.6	4.5	5.7	6.4	6.2	6.4	5.2	5.9	5.7	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.33	0.35	0.73	0.88	0.97	0.91	0.75	0.79	1.14	1.26	0.98	0.88	0.83	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GEORGINA
 PLANT : SUTTON WPCP
 WORKS NUMBER : 110001168
 TREATMENT : SUTTON PROCESS
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : SEASONAL DISCHARGE
 DESIGN CAPACITY : 2.04 (1000 M3)

REGION : CENTRAL
 DISTRICT : YORK, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : BLACK RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,650

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.13	1.13	1.31	1.50	1.82	2.04	1.83	1.79	1.48	1.36	0.94	0.94	1.44	
BOD5														
INFLUENT (MG/L)	183.0	ND	185.0	112.0	ND	80.0	ND	153.0	66.0	68.0	387.0	115.0	149.9	
EFFLUENT (MG/L)	4.5	2.9	2.5	1.7	ND	8.7	ND	19.1	6.4	ND	0.8	1.7	5.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.08	3.27	3.27	2.55	ND	17.74	ND	34.18	9.47	ND	0.75	1.59	7.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	ND	186.0	120.0	ND	101.0	ND	179.0	98.0	166.0	139.0	125.0	137.1	
EFFLUENT (MG/L)	1.4	5.0	2.5	4.0	ND	12.4	ND	29.0	2.5	ND	9.3	2.4	7.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.58	5.65	3.27	6.00	ND	25.29	ND	51.91	3.70	ND	8.74	2.25	10.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	ND	7.2	ND	ND	5.5	ND	9.5	6.7	7.1	6.5	6.8	7.0	
EFFLUENT (MG/L)		0.1	0.1	ND	ND	0.5	ND	1.3	2.2	ND	0.3	0.1	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)		0.11	0.13	ND	ND	1.02	ND	2.32	3.25	ND	0.28	0.09	0.86	

NOTE:

BOD - HAS NO CRITERIA
 SS - HAS NO CRITERIA
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRAVENHURST WPCP (DUAL OPERATION) REGION : CENTRAL
 PLANT : GRAVENHURST WPCP (DUAL OPERATION) DISTRICT : MUSKOKA, DIST. MUN.
 WORKS NUMBER : 12000809 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : MUSKOKA LAKE
 : EXTENDED AERATION MINOR BASIN : HURON
 : PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
 : 3.04 (1000 M3) POPULATION SERVED : 4,782

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.25	2.10	2.48	2.89	2.63	2.46	2.13	2.02	1.90	1.96	2.29	2.23	2.28	
BOD5														
INFLUENT (MG/L)	58.0	118.0	40.0	106.0	86.0	160.0	129.0	ND	157.0	154.0	170.0	172.0	122.7	
EFFLUENT (MG/L)	4.0	6.6	3.1	2.4	2.7	0.5	8.4	ND	7.3	3.6	5.6	3.3	4.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.00	13.86	7.68	6.93	7.10	1.23	17.89	ND	13.87	7.05	12.82	7.35	9.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	89.0	122.0	60.0	112.0	107.0	191.0	136.0	79.0	124.0	167.0	151.0	159.0	124.8	
EFFLUENT (MG/L)	16.0	44.0	13.0	6.5	1.5	4.5	3.0	4.0	2.5	2.4	9.5	4.4	9.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	36.00	92.40	32.24	18.78	3.94	11.07	6.39	8.08	4.75	4.70	21.75	9.81	21.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	4.6	3.4	5.1	4.6	7.1	6.6	4.4	7.3	6.2	5.6	6.9	5.6	
EFFLUENT (MG/L)	0.4	0.3	0.6	0.2	ND	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.90	0.63	1.48	0.57	ND	0.24	0.42	0.40	0.38	0.19	0.45	0.44	0.46	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE
 FACILITY EXPANSION/UPGRADING - APPLICATION FOR FUNDING

START DATE END DATE ANTICIPATED COMPLIANCE

1987 1992 1992

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALTON HILLS
 PLANT : ACTON WPCP + LAGOON
 WORKS NUMBER : 120001023
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 DESIGN CAPACITY : 4.54 (1000 M3)

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : BLACK CREEK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 7,478

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.70	2.50	2.60	2.90	2.80	3.20	2.50	2.30	2.40	2.50	2.20	2.20	2.57	
BOD5 INFLUENT (MG/L)	193.0	120.0	223.0	153.0	115.0	107.0	98.0	127.0	ND	160.0	140.0	135.0	142.8	
EFFLUENT (MG/L)	1.3	1.0	1.1	1.1	2.1	0.3	0.5	0.3	0.3	0.9	1.2	1.0	0.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.51	2.50	2.86	3.19	5.88	0.96	1.25	0.69	0.72	2.25	2.64	2.20	2.31	
SUSPENDED SOLIDS INFLUENT (MG/L)	245.0	159.0	130.0	188.0	180.0	115.0	139.0	141.0	ND	189.0	166.0	148.0	163.6	
EFFLUENT (MG/L)	4.5	4.8	3.9	3.6	4.6	1.9	2.5	1.0	1.7	2.1	4.7	5.8	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.15	12.00	10.14	10.44	12.88	6.08	6.25	2.30	4.08	5.25	10.34	12.76	8.74	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.0	6.2	7.3	6.9	5.9	5.6	5.6	7.3	ND	7.2	8.0	8.5	6.8	
EFFLUENT (MG/L)	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.7	0.5	0.3	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.81	0.75	0.78	0.58	0.84	0.64	0.50	0.46	0.48	0.50	1.54	1.10	0.77	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALTON HILLS
PLANT : GEORGETOWN WPCP
WORKS NUMBER : 110000294
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL - CONTINUOUS
: EFFLUENT POLISHING

REGION : CENTRAL
DISTRICT : HALTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SILVER CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 20,100

DESIGN CAPACITY : 13.63 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.25	8.49	9.63	9.75	8.97	9.70	8.60	8.70	8.80	8.90	10.28	9.29	9.20	
BOD5 INFLUENT (MG/L)	190.0	232.0	240.0	147.0	130.0	160.0	143.0	ND	121.0	147.0	145.0	175.0	166.4	
EFFLUENT (MG/L)	0.4	3.2	3.4	0.8	0.4	1.6	0.6	3.2	1.4	1.2	1.8	1.4	1.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.70	27.16	32.74	7.80	3.58	15.52	6.88	27.84	12.32	10.68	18.50	13.00	14.72	
SUSPENDED SOLIDS INFLUENT (MG/L)	279.0	297.0	180.0	256.0	201.0	285.0	282.0	ND	122.0	227.0	317.0	203.0	240.8	
EFFLUENT (MG/L)	2.3	2.8	3.2	5.5	5.4	3.7	5.2	5.5	4.9	7.7	6.8	10.2	5.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	21.27	23.77	30.81	53.62	48.43	35.89	44.72	47.85	43.12	68.53	69.90	94.75	48.76	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	9.4	11.6	9.4	10.9	8.4	7.7	11.2	ND	12.3	9.3	11.6	13.6	10.5	
EFFLUENT (MG/L)	0.4	0.2	0.4	0.3	0.2	0.1	0.4	1.7*	0.4	0.4	0.2	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.70	1.69	3.85	2.92	1.79	0.97	3.44	14.79	3.52	3.56	2.05	ND	3.68	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HASTINGS
: HASTINGS WPCP
: 110001827
: OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 1.05 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 959

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.30	0.62	0.65	1.11	1.12	0.99	0.80	0.59	0.77	0.94	0.84	0.65	0.87	
BOD5														
INFLUENT (MG/L)	236.5	62.0	46.0	67.0	30.0	62.0	90.5	80.0	56.0	66.5	45.0	94.5	78.0	
EFFLUENT (MG/L)	9.6	7.5	11.0	6.5	2.5	0.5	0.8	0.8	0.2	3.7	3.1	8.3	4.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.48	4.65	7.15	7.21	2.80	0.49	0.64	0.47	0.15	3.47	2.60	5.39	3.92	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	349.5	97.0	75.0	90.0	75.5	79.0	172.5	116.5	61.0	82.5	442.0	74.0	142.9	
EFFLUENT (MG/L)	11.8	13.6	16.5	20.0	10.0	8.7	5.8	6.8	9.0	12.5	6.3	8.0	10.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.34	8.43	10.72	22.20	11.20	8.61	4.64	4.01	6.93	11.75	5.29	5.20	9.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	3.8	2.4	4.1	2.0	2.2	3.7	3.7	2.1	2.5	2.0	3.5	3.2	
EFFLUENT (MG/L)	0.4	0.3	0.4	0.6	0.3	0.2	0.2	0.3	0.3	0.5	0.3	0.6	0.4	
CONCENTRATION LIMIT (MG/L)													0.4	
LOADING (KG/D)	0.52	0.18	0.26	0.66	0.33	0.19	0.16	0.17	0.23	0.47	0.25	0.39	0.35	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EQ. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: HAVELock	REGION	: CENTRAL
PLANT	: HAVELock	DISTRICT	: PETERBOROUGH
WORKS NUMBER	: 110001765	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	: PLATO CREEK
	: PHOSPHORUS REMOVAL - BATCH	MINOR BASIN	: ONTARIO
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.58 (1000 M3)	POPULATION SERVED	: 1,362

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.74	0.79	0.76	0.92	0.89	0.93	0.75	0.69	0.74	0.78	0.96	0.86	0.82	
LAGOON DISCHARGE	ND	ND	ND	ND	139.20	ND	ND	ND	ND	ND	ND	ND	139.20	
BOD5														
INFLUENT (MG/L)	86.3	152.0	83.5	122.0	76.0	26.0	99.5	130.5	141.5	110.0	66.5	90.0	98.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	12.8	ND	ND	ND	5.0	4.7	3.5	ND	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	11.39	ND	ND	ND	3.70	3.66	3.36	ND	5.33	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	102.7	147.0	141.0	177.0	69.0	55.5	108.5	142.5	107.5	167.0	60.5	112.5	115.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	15.4	ND	ND	ND	6.0	2.2	2.4	ND	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	13.70	ND	ND	ND	4.44	1.71	2.30	ND	5.33	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	7.0	5.6	5.7	3.5	2.2	6.1	6.5	5.6	6.2	3.1	5.7	5.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.5	ND	ND	ND	0.5	0.7	0.5	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	
LOADING (KG/D)	ND	ND	ND	ND	0.44	ND	ND	ND	0.37	0.54	0.48	ND	0.49	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1992 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HUNTSVILLE
 PLANT : HUNTSVILLE WPCP
 WORKS NUMBER : 110000347
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 4.54 (1000 M3)

REGION : CENTRAL
 DISTRICT : MUSKOKA, DIST. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : MUSKOKA RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,016

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.54	3.31	4.48	5.57	4.80	4.40	3.96	3.55	4.21	3.84	4.49	4.03	4.18	
BOD5														
INFLUENT (MG/L)	165.0	129.0	97.0	85.0	82.0	82.0	88.0	158.0	137.0	169.0	110.0	140.0	120.2	
EFFLUENT (MG/L)	4.9	2.2	2.1	3.0	1.0	8.5	2.8	4.5	2.1	2.0	2.7	4.1	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.34	7.28	9.40	16.71	4.80	37.40	11.08	15.97	8.84	7.68	12.12	16.52	13.79	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	89.0	144.0	78.0	96.0	196.0	153.0	159.0	195.0	124.0	141.0	84.0	120.0	131.6	
EFFLUENT (MG/L)	6.6	7.0	9.0	13.6	14.0	6.2	4.4	7.7	4.7	7.1	10.9	9.2	8.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	23.36	23.17	40.32	75.75	67.20	27.28	17.42	27.33	19.78	27.26	48.94	37.07	35.11	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	5.9	5.1	4.6	5.4	4.2	13.4	7.1	33.1	6.0	4.6	5.1	9.4	
EFFLUENT (MG/L)	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.70	0.66	0.89	1.67	0.96	0.88	0.79	1.06	0.84	1.15	1.79	1.20	1.25	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE END DATE ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: INNISFIL (ALCONA) WPCP
: INNISFIL
: 110002586
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 7.27 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,500

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.69	1.41	1.78	2.13	2.18	2.35	2.18	2.14	2.01	2.16	2.46	2.17	2.06	
BOD5 INFLUENT (MG/L)	74.0	83.0	71.9	95.2	188.5	136.0	151.0	312.0	103.0	105.5	110.5	146.5	131.4	
EFFLUENT (MG/L)	1.9	0.5	1.2	0.5	0.7	0.5	1.1	0.7	1.4	0.3	0.3	0.9	0.8	
CONCENTRATION LIMIT (MG/L)													10.0	
LOADING (KG/D)	3.21	0.70	2.13	1.06	1.52	1.17	2.39	1.49	2.81	0.64	0.73	1.95	1.65	
LOADING LIMIT (KG/D)													71.85	
SUSPENDED SOLIDS INFLUENT (MG/L)	82.0	173.5	117.8	113.0	293.5	308.0	207.0	604.0	134.0	132.5	107.7	171.5	203.7	
EFFLUENT (MG/L)	1.7	2.5	4.0	3.3	5.0	3.5	3.0	4.0	2.8	1.1	0.6	0.5	2.7	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	2.87	3.52	7.12	7.02	10.90	8.22	6.54	8.56	5.62	2.37	1.47	1.08	5.56	
LOADING LIMIT (KG/D)													107.78	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	3.9	4.9	2.9	3.4	8.6	5.8	6.3	8.8	5.5	5.3	4.3	7.2	5.6	
EFFLUENT (MG/L)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	0.16	0.17	0.21	0.21	0.21	0.23	0.21	0.42	0.60	0.43	0.24	0.21	0.21	
LOADING LIMIT (KG/D)													2.16	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	10.0 MG/L	71.85 KG/D	YES	YES
SS	15.0 MG/L	107.78 KG/D	YES	YES
TP	0.3 MG/L	2.16 KG/D	YES	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : INNISFIL (ALCONA) WPCP
 PLANT : 110002586
 WORKS NUMBER : EXTENDED AERATION
 TREATMENT : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 DESIGN CAPACITY : 7.27 (1000 M3)

REGION : CENTRAL
 DISTRICT : SIMCOE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE SIMCOE
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 8,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.69	1.41	1.78	2.13	2.18	2.35	2.18	2.14	2.01	2.16	2.46	2.17	2.06	
BOD5														
INFLUENT (MG/L)	74.0	83.0	71.9	95.2	188.5	136.0	151.0	312.0	103.0	105.5	110.5	146.5	131.4	
EFFLUENT (MG/L)	1.9	0.5	1.2	0.5	0.7	0.5	1.1	0.7	1.4	0.3	0.3	0.9	0.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.21	0.70	2.13	1.06	1.52	1.17	2.39	1.49	2.81	0.64	0.73	1.95	1.65	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	82.0	173.5	117.8	113.0	293.5	308.0	207.0	604.0	134.0	132.5	107.7	171.5	203.7	
EFFLUENT (MG/L)	1.7	2.5	4.0	3.3	5.0	3.5	3.0	4.0	2.8	1.1	0.6	0.5	2.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.87	3.52	7.12	7.02	10.90	8.22	6.54	8.56	5.62	2.37	1.47	1.08	5.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	4.9	2.9	3.4	8.6	5.8	6.3	8.8	5.5	5.3	4.3	7.2	5.6	
EFFLUENT (MG/L)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.16	0.17	0.21	0.21	0.21	0.23	0.21	0.42	0.60	0.43	0.24	0.21	0.21	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			COMPLIES
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LAKEFIELD LAGOON
 PLANT : LAKEFIELD LAGOON
 WORKS NUMBER : 110001462
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 DESIGN CAPACITY : 1.59 (1000 M3)

REGION : CENTRAL
 DISTRICT : PETERBOROUGH
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : OTONABEE RIVER
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,518

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.65	1.55	1.62	1.89	1.97	1.93	1.36	1.24	1.24	1.64	2.26	1.80	1.68	
LAGOON DISCHARGE	ND	4.38	7.48	11.97	ND	ND	ND	ND	ND	6.03	11.80	ND	8.33	
BOD5														
INFLUENT (MG/L)	ND	ND	62.0	38.0	83.0	70.0	159.0	20.0	148.0	89.0	80.0	ND	83.2	
EFFLUENT (MG/L)	ND	ND	ND	18.8	ND	ND	ND	ND	ND	27.0	17.2	ND	21.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	35.53	ND	ND	ND	ND	ND	44.28	38.87	ND	35.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	121.0	98.0	100.0	130.0	130.0	174.0	193.0	137.0	242.0	91.0	181.0	ND	145.2	
EFFLUENT (MG/L)	ND	17.0	ND	18.0	ND	ND	ND	ND	ND	45.7	42.8	ND	30.9	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.94	96.72	ND	40.0	
LOADING (KG/D)	ND	26.35	ND	34.02	ND	ND	ND	ND	ND	ND	ND	ND	51.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	3.6	3.5	3.9	4.8	6.5	1.8	6.8	2.1	5.3	ND	4.3	
EFFLUENT (MG/L)	ND	ND	ND	1.1*	ND	ND	ND	ND	ND	0.9	0.8	ND	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	2.07	ND	ND	ND	ND	ND	1.47	1.80	ND	1.51	

SUMMARY COMPLIES
 PARM CRITERIA WITH CONC
 BOD 30.0 MG/L YES
 SS 40.0 MG/L YES
 TP 1.0 MG/L NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: LINDSAY
: LINDSAY LAGOON
: 110000383
: CONVENTIONAL LAGOON CONTINUOUS
: AERATED CELL
: PHOSPHORUS REMOVAL-CONTINUOUS
: 17.18 (1000 M3)

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SCUGOG RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 15,176

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	13.73	12.83	ND	ND	ND	ND	9.48	9.27	9.57	9.97	16.00	11.77	11.58	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	105.0	80.0	109.0	59.0	70.0	45.0	76.0	93.0	115.0	79.0	93.0	101.0	85.4	
EFFLUENT (MG/L)	10.1	11.7	20.6	20.5	8.6	5.7	15.6	13.6	8.3	2.5	6.6	4.5	10.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	138.67	150.11	ND	ND	ND	ND	147.68	126.07	79.43	24.92	105.60	52.96	123.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	137.0	91.0	138.0	53.0	108.0	48.0	81.0	114.0	129.0	108.0	95.0	97.0	99.9	
EFFLUENT (MG/L)	8.0	17.8	22.3	33.3	6.5	4.6	41.1	17.0	11.0	13.3	13.4	6.2	16.2	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	109.84	228.37	ND	ND	ND	ND	389.62	157.59	105.27	132.60	214.40	72.97	187.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	5.4	4.4	5.2	5.1	3.8	7.5	5.5	6.5	5.9	3.1	4.8	5.3	
EFFLUENT (MG/L)	1.2*	1.7*	1.8*	0.9	0.5	0.7	0.4	0.8	0.7	0.5	0.5	0.4	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	16.47	21.81	ND	ND	ND	ND	3.79	7.41	6.69	4.98	8.00	4.70	9.26	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED
FACILITY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE END DATE COMPLIANCE

1990/01
1990/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: METRO TORONTO
: HIGHLAND CREEK WPCP (SCARBOROUGH)
: 120000373
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : METRO TORONTO, MUN. OF
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 310,000

DESIGN CAPACITY : 218.20 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	131.00	137.10	167.40	179.90	190.50	200.20	205.80	204.90	199.90	187.30	183.30	166.70	179.50	
BOD5														
INFLUENT (MG/L)	150.0	146.0	141.0	146.0	165.0	167.0	148.0	165.0	149.0	158.0	165.0	158.0	154.8	
EFFLUENT (MG/L)	8.4	8.3	3.8	8.9	8.5	11.7	8.0	7.2	8.3	6.3	5.4	4.6	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1100.40	1137.93	636.12	1601.11	1619.25	2342.34	1646.40	1475.28	1659.17	1179.99	989.82	766.82	1346.25	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	197.0	190.0	205.0	190.0	205.0	211.0	196.0	225.0	214.0	202.0	200.0	200.0	202.9	
EFFLUENT (MG/L)	19.3	17.4	18.1	20.8	26.8	26.7	25.7	27.0	27.8	21.8	19.1	21.3	22.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2528.30	2385.54	3029.94	3741.92	5105.40	5345.34	5289.06	5532.30	5557.22	4083.14	3501.03	3550.71	4074.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.1	4.8	5.0	4.8	4.8	4.3	4.2	4.6	4.5	4.3	4.6	4.7	
EFFLUENT (MG/L)	0.7	0.6	0.6	0.7	0.7	0.6	0.8	0.6	0.9	0.8	0.5	0.6	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	91.70	82.26	100.44	125.93	133.35	120.12	164.64	122.94	179.91	149.84	91.65	100.02	125.65	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: METRO TORONTO
: HUBNER WPCP (ETOBICOKE)
: 120000382
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 409.14 (1000 M3)

REGION : CENTRAL
DISTRICT : METRO TORONTO, MUN. OF
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 540,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	385.91	376.86	383.28	407.67	428.22	465.64	421.00	408.00	426.54	389.99	394.56	346.50	402.85	
BOD5 INFLUENT (MG/L)	218.0	228.0	213.0	158.0	203.0	179.0	153.0	170.0	192.0	174.0	181.0	213.0	190.2	
EFFLUENT (MG/L)	11.0	8.2	4.1	4.7	5.3	10.8	7.4	7.6	5.4	12.0	7.5	4.3	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4245.01	3090.25	1571.44	1916.04	2269.56	5028.91	3115.40	3100.80	2303.31	4679.88	2959.20	1489.95	2981.09	
SUSPENDED SOLIDS INFLUENT (MG/L)	403.0	372.0	409.0	360.0	292.0	235.0	181.0	206.0	250.0	249.0	203.0	302.0	288.5	
EFFLUENT (MG/L)	21.3	20.2	20.2	16.9	20.0	18.9	10.9	17.1	14.2	17.9	17.4	22.0	18.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8219.88	7612.57	7742.25	6889.62	8564.40	8800.59	4588.90	6976.80	6056.86	6980.82	6865.34	7623.00	7291.59	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	8.8	9.3	10.0	8.5	7.4	6.3	5.4	5.2	6.7	6.2	6.2	7.7	7.3	
EFFLUENT (MG/L)	0.9	1.0	0.7	0.6	0.8	0.8	0.6	0.7	0.7	0.7	0.6	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	347.31	376.86	268.29	244.60	342.57	372.51	252.60	285.60	298.57	272.99	236.73	242.55	282.00	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : METRO TORONTO
 PLANT : MAIN WPCP (TORONTO)
 WORKS NUMBER : 120000391
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 818.28 (1000 M3)

REGION : CENTRAL
 DISTRICT : METRO TORONTO, MUN. OF
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,250,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	749.00	804.00	863.00	810.50	920.00	1033.00	737.00	724.00	633.00	704.00	683.00	687.70	779.02	
BOD5														
INFLUENT (MG/L)	182.0	189.0	181.0	187.0	201.0	187.0	168.0	163.0	207.0	281.0	210.0	184.0	195.0	
EFFLUENT (MG/L)	15.6	17.3	23.3	20.5	17.7	10.0	11.5	8.9	11.4	14.5	12.8	13.5	14.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1834.20	3909.20	107.90	6615.25	6284.00	330.00	8475.50	6443.60	7216.20	208.00	8742.40	9283.95	11529.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	196.0	196.0	210.0	246.0	282.0	240.0	221.0	181.0	192.0	326.0	312.0	250.0	237.7	
EFFLUENT (MG/L)	9.0	14.5	26.5	21.8	16.9	10.9	16.9	13.6	10.2	21.9	15.5	10.4	15.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6741.00	1658.00	2869.50	7668.90	5548.00	1259.70	2455.30	9846.40	6456.60	5417.60	586.50	7152.08	12230.61	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	5.3	5.3	5.6	6.5	5.6	5.1	4.8	5.5	6.5	5.9	5.8	5.6	
EFFLUENT (MG/L)	0.5	0.6	0.8	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.5	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	374.50	482.40	690.40	648.40	644.00	516.50	442.20	362.00	379.80	492.80	341.50	343.85	467.41	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	YES	NO
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : METRO TORONTO REGION : CENTRAL
 PLANT : NORTH TORONTO WPCP (EAST YORK) DISTRICT : METRO TORONTO, MUN. OF
 WORKS NUMBER : 120000364 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : DON RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : ONTARIO
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 45.46 (1000 M3) POPULATION SERVED : 85,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	36.80	34.10	30.00	33.70	35.60	36.40	36.50	34.60	36.40	37.50	37.10	36.80	35.46	
BOD5 INFLUENT (MG/L)	279.0	260.0	240.0	175.0	130.0	157.0	123.0	138.0	117.0	113.0	121.0	108.0	163.4	
EFFLUENT (MG/L)	23.7	23.6	21.3	20.8	4.2	3.6	5.9	6.5	9.2	2.1	3.6	6.5	10.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	872.16	804.76	639.00	700.96	149.52	131.04	215.35	224.90	334.88	78.75	133.56	239.20	366.51	
SUSPENDED SOLIDS INFLUENT (MG/L)	155.1	188.0	161.0	161.0	144.0	158.0	134.0	130.0	142.0	151.0	147.0	166.0	153.1	
EFFLUENT (MG/L)	14.4	15.0	33.7	36.7	23.8	6.9	6.9	6.2	5.7	4.5	8.3	10.0	14.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	529.92	511.50	1011.00	1236.79	847.28	251.16	251.85	214.52	207.48	168.75	307.93	368.00	507.08	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	5.5	5.3	5.0	5.0	4.5	4.4	3.9	3.6	4.6	4.1	4.2	5.1	4.6	
EFFLUENT (MG/L)	0.8	0.8	1.3*	1.4*	0.9	0.5	0.5	0.4	0.7	0.6	0.7	0.9	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	29.44	27.28	39.00	47.18	32.04	18.20	18.25	13.84	25.48	22.50	25.97	33.12	28.37	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED
 FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989/03	1989/05	1989/05
1989/03	1989/05	1989/05
1990/01	1990/12	
1989/06	1990/06	

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MIDLAND
: MIDLAND WPCP
: 110000463
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 13.68 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MIDLAND BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,536

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	11.51	11.03	12.68	12.62	12.43	11.91	10.28	10.70	10.74	10.76	11.37	10.15	11.35	
BOD5														
INFLUENT (MG/L)	62.0	74.0	118.0	65.0	70.0	60.0	80.0	63.0	96.0	91.0	77.0	111.0	80.6	
EFFLUENT (MG/L)	4.2	2.9	7.2	13.4	10.4	1.5	3.7	2.5	6.3	1.7	4.9	3.2	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	48.34	31.98	91.29	169.10	129.27	17.86	30.03	26.75	67.66	18.29	55.71	32.48	59.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	142.0	189.0	254.0	242.0	104.0	107.0	149.0	111.0	174.0	129.0	115.0	183.0	158.3	
EFFLUENT (MG/L)	7.4	7.7	9.7	9.0	6.5	3.1	5.5	5.5	6.7	5.4	5.4	8.7	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	85.17	84.93	122.99	113.56	80.79	36.92	56.54	58.85	71.95	58.10	61.39	88.30	76.05	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.4	5.5	5.0	3.8	3.4	5.8	4.2	5.2	5.0	3.8	7.4	5.0	
EFFLUENT (MG/L)	0.6	0.4	0.5	0.4	0.4	0.4	0.8	0.7	0.4	0.5	1.3*	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	6.90	4.41	6.34	5.04	4.97	4.76	8.22	7.49	4.29	5.38	14.78	6.09	6.81	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILLBROOK WPCP REGION : CENTRAL
 PLANT : MILLBROOK DISTRICT : PETERBOROUGH
 WORKS NUMBER : 110002236 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : EXTENDED AERATION WATERCOURSE : BAXTER CREEK
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : ONTARIO
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 1.13 (1000 M3) POPULATION SERVED : 1,026

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.93	0.81	0.79	0.99	1.12	0.97	0.80	0.80	0.81	0.91	1.18	0.86	0.91	
BOD5 INFLUENT (MG/L)	60.5	136.0	125.0	62.0	86.0	117.0	124.0	109.0	115.0	209.0	104.0	96.0	112.0	
EFFLUENT (MG/L)	5.8	3.1	6.4	4.8	6.0	5.2	7.4	5.2	3.8	3.6	4.5	5.9	5.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.39	2.51	5.05	4.75	6.72	5.04	5.92	4.16	3.07	3.27	5.31	5.07	4.64	
SUSPENDED SOLIDS INFLUENT (MG/L)	85.7	114.0	224.0	86.0	80.0	170.0	128.0	122.0	130.0	178.0	93.0	66.0	123.1	
EFFLUENT (MG/L)	7.8	6.0	11.5	10.5	7.6	6.0	5.0	5.8	6.5	3.0	2.2	3.7	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.25	4.86	9.08	10.39	8.51	5.82	4.00	4.64	5.26	2.73	2.59	3.18	5.73	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	3.5	5.1	6.1	3.9	2.2	5.0	ND	5.3	7.0	8.2	5.7	5.1	5.2	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.4	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)													0.1	
LOADING (KG/D)	0.18	0.16	0.23	0.39	0.22	0.09	0.08	0.16	0.16	0.09	0.11	0.08	0.18	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH	CONC
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILTON
PLANT : MILTON WPCP
WORKS NUMBER : 120001014
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 12.91 (1000 M3)

DESIGN CAPACITY

REGION : CENTRAL
DISTRICT : HALTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OAKVILLE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 23,203

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.90	9.30	10.40	10.50	10.00	10.80	8.90	9.20	9.30	10.00	11.00	9.70	9.92	
BOD5														
INFLUENT (MG/L)	300.0	194.0	296.0	245.0	127.0	177.0	270.0	323.0	290.0	177.0	157.0	195.0	229.3	
EFFLUENT (MG/L)	1.8	2.0	3.2	1.5	0.6	1.0	0.5	0.3	0.6	0.3	2.5	0.7	1.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.82	18.60	33.28	15.75	6.00	10.80	4.45	2.76	5.58	3.00	27.50	6.79	12.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	182.0	156.0	211.0	199.0	171.0	165.0	253.0	191.0	176.0	200.0	153.0	135.0	182.7	
EFFLUENT (MG/L)	3.3	6.0	5.6	2.6	2.4	2.3	2.3	1.6	3.1	4.3	2.9	4.0	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	32.67	55.80	58.24	27.30	24.00	24.84	20.47	14.72	28.83	43.00	31.90	38.80	33.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	8.5	8.0	6.0	6.0	6.9	9.2	7.3	7.8	8.1	7.3	7.0	7.3	
EFFLUENT (MG/L)	0.2	0.5	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.98	4.65	3.12	3.15	2.00	2.16	0.89	1.84	1.86	3.00	2.20	1.94	1.98	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY	: MISSISSAUGA	REGION	: CENTRAL
PLANT	: CLARKSON WPCP SOUTH-PEEL SYSTEM	DISTRICT	: PEEL, REG. MUN.
WORKS NUMBER	: 110001328	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LAKE ONTARIO
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 109.10 (1000 M3)	POPULATION SERVED	: 150,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	76.85	75.51	82.92	85.70	83.15	92.23	84.51	88.69	86.02	86.29	91.40	81.78	84.60	
BOD5														
INFLUENT (MG/L)	228.6	213.5	144.5	174.6	171.9	169.7	157.3	148.3	169.8	177.6	157.3	168.3	173.5	
EFFLUENT (MG/L)	15.1	16.2	19.5	9.1	16.0	13.1	13.0	5.6	9.4	9.9	10.3	10.7	12.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1160.43	1223.26	1616.94	779.87	1330.40	1208.21	1099.93	496.66	808.58	854.27	941.42	875.04	1040.58	
LOADING LIMIT (KG/D)													2725.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	226.8	197.3	213.3	201.4	159.6	162.2	177.8	291.0	149.1	124.3	157.2	217.4	189.8	
EFFLUENT (MG/L)	9.3	10.4	14.3	11.3	14.9	9.6	8.7	6.7	11.1	9.6	11.0	10.4	10.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	714.70	785.30	1185.75	968.41	1238.93	885.40	736.10	594.22	954.82	828.38	1005.40	850.51	896.76	
LOADING LIMIT (KG/D)													2725.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.8	8.5	7.5	6.3	7.3	7.7	6.7	6.5	6.5	6.6	6.4	6.2	7.1	
EFFLUENT (MG/L)	0.9	1.0	0.8	0.8	1.0	0.9	0.8	1.0	1.0	0.7	0.8	0.7	0.9	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	69.16	75.51	66.33	68.56	83.15	83.00	67.68	88.69	86.02	60.40	73.12	57.24	76.14	
LOADING LIMIT (KG/D)													109.00	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH	
PARAM	CRITERIA	LOADING	CONC
BOD	25.0 MG/L	2725.00 KG/D	YES
SS	25.0 MG/L	2725.00 KG/D	YES
TP	1.0 MG/L	109.00 KG/D	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MISSISSAUGA
: CLARKSON WPCP SOUTH-PEEL SYSTEM
: 110001328
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : PEEL, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 150,000

DESIGN CAPACITY

: 109.10 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	76.85	75.51	82.92	85.70	83.15	92.23	84.61	88.69	86.02	86.29	91.40	81.78	84.60	
BOD5														
INFLUENT (MG/L)	228.6	213.5	144.5	174.6	171.9	169.7	157.3	148.3	169.8	177.6	157.3	168.3	173.5	
EFFLUENT (MG/L)	15.1	16.2	19.5	9.1	16.0	13.1	13.0	5.6	9.4	9.9	10.3	10.7	12.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1160.43	1223.26	1616.94	779.87	1330.40	1208.21	1099.93	496.66	808.58	854.27	941.42	875.04	1040.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	226.8	197.3	213.3	201.4	159.6	162.2	177.8	291.0	149.1	124.3	157.2	217.4	189.8	
EFFLUENT (MG/L)	9.3	10.4	14.3	11.3	14.9	9.6	8.7	6.7	11.1	9.6	11.0	10.4	10.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	714.70	785.30	1185.75	968.41	1238.93	885.40	736.10	594.22	954.82	828.38	1005.40	850.51	896.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.8	8.5	7.5	6.3	7.3	7.7	6.7	6.5	6.5	6.6	6.4	6.2	7.1	
EFFLUENT (MG/L)	0.9	1.0	0.8	0.8	1.0	0.9	0.8	1.0	1.0	0.7	0.8	0.7	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	69.16	75.51	66.33	68.56	83.15	83.00	67.68	88.69	86.02	60.40	73.12	57.24	76.14	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MISSISSAUGA
 PLANT : LAKEVIEW WPCP SOUTH-PEEL SYSTEM
 WORKS NUMBER : 110001284
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 284.12 (1000 M3)
 REGION : CENTRAL
 DISTRICT : PEEL, REG. MUN.
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 470,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	246.12	242.33	254.69	269.78	274.47	285.95	253.31	258.41	257.69	247.45	273.71	252.36	259.69	
BOD5														
INFLUENT (MG/L)	293.1	285.7	245.6	ND	ND	ND	284.0	273.6	217.0	250.1	237.7	279.9	263.0	
EFFLUENT (MG/L)	31.0	23.1	18.9	ND	ND	ND	ND	31.3	21.3	20.3	31.9	27.9	25.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7629.72	5597.82	4813.64	ND	ND	ND	ND	8088.23	5488.79	5023.23	8731.34	7040.84	6674.03	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	278.9	281.5	272.0	330.1	257.5	269.8	246.4	261.1	218.0	246.0	265.8	280.4	267.3	
EFFLUENT (MG/L)	7.9	14.2	18.0	17.5	15.1	21.5	11.4	9.3	7.7	12.2	22.0	10.6	14.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1944.34	3441.08	4584.42	4721.15	4144.49	6147.92	2887.73	2403.21	1984.21	3018.89	6021.62	2675.01	3635.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	8.3	6.8	7.4	7.0	6.0	6.0	6.8	6.1	5.8	7.1	7.3	6.8	
EFFLUENT (MG/L)	0.4	0.8	0.8	0.5	0.8	1.0	0.9	1.0	0.7	0.9	1.0	0.7	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	98.44	193.86	203.75	134.89	219.57	285.95	227.97	258.41	180.38	222.70	273.71	176.65	207.75	

PARAM	SUMMARY	COMPLIES
CRITERIA	WITH CONC	
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MUSKOKA LAKES
: BALA WPCP
: 120000792
: COMMUNAL SEPTIC TANK
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION
: 0.09 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LONG LAKE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 113

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.07	0.04	0.09	0.10	0.11	0.10	0.07	0.08	0.63	0.03	0.06	0.05	0.12	
BOD5														
INFLUENT (MG/L)	25.0	36.0	35.0	31.0	19.0	131.0	72.0	140.0	76.0	30.0	76.0	124.0	66.3	
EFFLUENT (MG/L)	5.0	0.5	0.5	1.2	4.1	2.9	9.9	4.5	5.2	2.1	4.4	4.7	3.8	
LOADING (KG/D)	0.35	0.02	0.04	0.12	0.45	0.29	0.69	0.36	3.27	0.06	0.26	0.23	0.46	
PERCENT REMOVAL	80	99	99	96	78	98	86	97	93	93	94	96	94	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	36.0	34.0	33.0	39.0	24.0	59.0	56.0	106.0	54.0	32.0	34.0	55.0	46.8	
EFFLUENT (MG/L)	15.9	12.0	38.9	40.5	14.8	66.7	39.5	11.8	14.4	10.6	13.0	36.2	26.2	
LOADING (KG/D)	1.11	0.48	3.50	4.05	1.62	6.67	2.76	0.94	9.07	0.31	0.78	1.81	3.14	
PERCENT REMOVAL	56	65	ND	ND	38	ND	29	89	73	67	62	34	44*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.6	2.0	2.0	2.8	1.5	6.5	5.5	4.6	3.6	1.0	4.3	2.4	3.2	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.1	0.3	0.4	0.6	0.2	0.1	0.1	0.1	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.02	
LOADING (KG/D)			0.01	0.01	0.03	0.04	0.04	0.01	0.06			0.01	0.02	

SUMMARY			COMPLIES	
PARAM	CRITERIA	WITH CONC	YES	NO
BOD	50%	YES		
SS	70%	NO		
TP	1.0 MG/L	YES		

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE 1986
END DATE 1991
COMPLIANCE 1991

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MUSKOKA LAKES REGION : CENTRAL
 PLANT : PORT CARLING WPCP DISTRICT : MUSKOKA, DIST. MUN.
 WORKS NUMBER : 110002229 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : EXTENDED AERATION WATERCOURSE : INDIAN RIVER
 : PHOSPHORUS REMOVAL -CONTINUOUS MINOR BASIN : HURON
 : EFFLUENT POLISHING MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 0.54 (1000 M3) POPULATION SERVED : 700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.19	0.25	0.12	0.23	0.24	0.29	0.12	0.10	0.74	0.08	0.07	0.22	
BOD5														
INFLUENT (MG/L)	113.0	135.0	51.0	66.0	78.0	125.0	219.0	218.0	73.0	107.0	42.0	62.0	107.4	
EFFLUENT (MG/L)	1.4	0.5	0.9	0.5	0.5	0.5	0.9	0.5	0.3	0.8	0.6	0.2	0.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.28	0.09	0.22	0.06	0.11	0.12	0.26	0.06	0.03	0.59	0.04	0.01	0.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	114.0	165.0	83.0	91.0	85.0	126.0	168.0	122.0	190.0	105.0	51.0	79.0	114.9	
EFFLUENT (MG/L)	2.5	3.5	3.3	0.5	0.5	2.0	5.8	10.0	2.5	0.5	4.3	1.3	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.50	0.66	0.82	0.06	0.11	0.48	1.68	1.20	0.25	0.37	0.34	0.09	0.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	6.6	4.0	5.9	5.6	5.4	7.3	7.1	8.8	6.4	3.8	5.0	6.1	
EFFLUENT (MG/L)	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.3	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.02	0.01	0.02	0.01	0.02	0.04	0.05	0.03	0.02	0.07	0.02	0.02	0.04	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

REGION	:	CENTRAL
DISTRICT	:	DURHAM, REG. MUN.
OPERATING AUTHORITY	:	MUNICIPAL
WATERCOURSE	:	LAKE ONTARIO
MINOR BASIN	:	ONTARIO
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,866

1.81 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.18	1.06	1.04	1.58	1.88	1.65	1.13	1.13	1.23	1.16	2.39	1.53	1.41	
BOD5														
INFLUENT (MG/L)	ND	210.0	128.0	39.0	94.0	94.0	179.0	86.0	98.0	151.0	55.0	96.0	112.0	
EFFLUENT (MG/L)	6.8	22.7	23.0	14.5	7.0	7.0	11.0	7.8	7.4	22.4	38.9	33.9	17.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.38	24.06	23.92	22.91	13.16	11.55	12.43	8.81	9.10	25.98	92.97	51.86	23.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	122.0	290.0	138.0	61.0	123.0	123.0	175.0	138.0	153.0	133.0	49.0	180.0	140.4	
EFFLUENT (MG/L)	11.3	11.9	13.0	12.3	14.3	14.2	16.3	19.3	18.5	12.1	13.9	17.9	14.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.33	12.61	13.52	19.43	26.88	23.43	18.41	21.80	22.75	14.03	33.22	27.38	20.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	10.5	8.6	2.5	5.7	5.7	6.8	4.5	6.9	6.4	2.8	5.6	6.0	
EFFLUENT (MG/L)	1.4	1.5	2.7	1.4	0.7	0.8	1.3	1.2	1.5	0.4	1.4	1.0	1.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.65	1.59	2.80	2.21	1.31	1.32	1.46	1.35	1.84	0.46	3.34	1.53	1.83	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

IF - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA

EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY

COMPLIES

PARAM CRITERIA WITH CONC

LEAD	25.0 MG/L	YES
BOD		

SS	25.0	MG/L	YES
SS	25.0	MG/L	YES

TP	NA	NA	NA
0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.1
0.2	0.2	0.2	0.2
0.3	0.3	0.3	0.3
0.4	0.4	0.4	0.4
0.5	0.5	0.5	0.5
0.6	0.6	0.6	0.6
0.7	0.7	0.7	0.7
0.8	0.8	0.8	0.8
0.9	0.9	0.9	0.9
1.0	1.0	1.0	1.0

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NEWCASTLE
: PORT DARLINGTON WPCP
: 120003076
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,831

DESIGN CAPACITY : 4.54 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.60	7.16	7.39	9.07	9.43	8.66	7.65	7.99	8.81	9.92	10.21	7.86	8.50	
BOD5														
INFLUENT (MG/L)	ND	140.0	144.0	113.0	43.0	52.0	339.0	60.0	163.0	45.0	21.0	149.0	115.4	
EFFLUENT (MG/L)	10.6	25.3	13.1	5.5	4.1	23.7	17.1	12.9	4.9	11.8	39.5	36.4	17.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	80.56	181.14	96.80	49.88	38.66	209.98	130.81	103.07	43.16	117.05	403.29	286.10	145.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	158.0	160.0	160.0	134.0	35.0	83.0	580.0	47.0	179.0	44.0	26.0	152.0	146.5	
EFFLUENT (MG/L)	11.0	14.8	15.3	12.2	14.8	23.0	10.8	7.6	9.6	12.0	12.6	15.0	13.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	83.60	105.96	113.06	110.65	139.56	203.78	82.62	60.72	84.57	119.04	128.64	117.90	112.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	5.2	5.3	4.0	4.8	6.1	7.9	6.5	6.3	4.5	3.9	4.9	5.4	
EFFLUENT (MG/L)	0.7	0.7	0.9	0.5	0.6	0.9	0.9	0.7	0.8	0.4	0.6	0.9	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	5.32	5.01	6.65	4.53	5.65	7.97	6.98	5.59	7.04	3.96	6.12	7.07	5.95	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE 1989/01
END DATE 1990/04
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORWOOD
 PLANT : NORWOOD WPCP
 WORKS NUMBER : 110001499
 TREATMENT : OXIDATION DITCH
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.72 (1000 M3)

REGION : CENTRAL
 DISTRICT : PETERBOROUGH
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : OUSE RIVER
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,135

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.55	0.55	0.55	0.55	0.51	0.46	0.44	0.46	0.50	0.66	0.59	0.53	
BOD5														
INFLUENT (MG/L)	101.0	192.5	114.0	152.0	119.0	122.0	119.0	124.0	155.5	122.0	130.0	141.0	132.7	
EFFLUENT (MG/L)	6.9	12.4	7.6	5.0	2.1	3.4	1.0	1.2	1.1	4.8	5.0	21.0	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.79	6.62	4.18	2.75	1.15	1.73	0.46	0.52	0.50	2.40	3.30	12.39	3.18	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.5	363.0	226.0	187.0	178.0	163.0	165.5	127.0	221.5	149.0	196.5	156.5	188.3	
EFFLUENT (MG/L)	6.4	7.0	8.5	6.5	3.5	10.0	2.5	3.5	3.5	4.1	4.6	7.4	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.52	3.85	4.67	3.57	1.92	5.10	1.15	1.54	1.61	2.05	3.03	4.36	2.97	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	7.5	8.3	7.9	6.6	6.2	6.6	5.7	8.9	7.0	6.5	6.4	7.1	
EFFLUENT (MG/L)	0.7	0.7	0.9	0.4	0.7	0.9	0.6	0.6	0.6	0.7	0.5	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.38	0.38	0.49	0.22	0.38	0.45	0.27	0.26	0.27	0.35	0.33	0.41	0.37	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OAKVILLE
 PLANT : SOUTH EAST WPCP
 WORKS NUMBER : 120000998
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 22.73 (1000 M3)

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 21,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.30	16.80	16.60	18.10	17.10	18.80	18.80	20.50	20.40	20.70	23.50	20.50	19.09	
BOD5 INFLUENT (MG/L)	170.0	313.0	155.0	71.0	115.0	83.0	83.0	71.0	120.0	123.0	125.0	82.0	125.9	
EFFLUENT (MG/L)	6.4	5.0	8.7	11.0	9.3	5.0	5.0	9.2	2.0	1.2	5.8	4.1	6.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	110.72	84.00	144.42	199.10	159.03	94.00	94.00	188.80	40.80	24.84	136.30	84.05	116.45	
SUSPENDED SOLIDS INFLUENT (MG/L)	195.0	147.0	101.0	132.0	184.0	117.0	117.0	53.0	97.0	88.0	145.0	133.0	125.8	
EFFLUENT (MG/L)	7.2	5.6	12.0	13.0	13.4	9.9	9.9	9.4	4.0	4.4	8.0	8.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	124.56	94.08	199.20	235.30	229.14	186.12	186.12	192.70	81.60	91.08	188.00	164.00	166.08	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.0	5.9	5.6	5.0	5.8	4.7	4.7	4.6	4.4	5.8	6.3	6.0	5.4	
EFFLUENT (MG/L)	0.7	0.6	0.9	0.7	0.6	1.0	1.0	0.9	0.3	0.3	0.4	0.8	0.7	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	12.11	10.08	14.94	12.67	10.26	18.80	18.80	18.45	6.12	6.21	9.40	16.40	13.36	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OAKVILLE
 PLANT : SOUTH WEST WPCP
 WORKS NUMBER : 120001005
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 47.73 (1000 M3)

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 58,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	31.10	29.30	33.70	38.30	40.32	41.99	33.34	36.16	36.62	36.59	41.78	32.98	36.02	
BOD5														
INFLUENT (MG/L)	290.0	222.0	330.0	128.0	219.0	219.0	303.0	216.0	187.0	200.0	236.0	380.0	244.2	
EFFLUENT (MG/L)	4.5	4.3	6.1	4.7	7.0	7.0	7.0	3.6	5.2	6.5	2.5	6.2	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	139.95	125.99	205.57	180.01	282.24	293.93	233.38	130.17	190.42	237.83	104.45	204.47	194.51	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	236.0	135.0	315.0	171.0	209.0	209.0	277.0	165.0	165.0	83.0	310.0	167.0	203.5	
EFFLUENT (MG/L)	8.2	10.7	11.3	9.8	10.1	10.1	10.0	8.9	8.8	7.4	3.2	13.0	9.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	255.02	313.51	380.81	375.34	407.23	424.09	333.40	321.82	322.25	270.76	133.69	428.74	334.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.4	8.6	8.2	5.7	6.5	4.1	6.1	7.0	7.4	6.6	7.9	6.4	6.8	
EFFLUENT (MG/L)	0.7	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.9	1.0	0.6	0.8	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	21.77	20.51	26.96	34.47	28.22	33.59	30.00	25.31	32.95	36.59	25.06	26.38	28.82	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY :
PLANT :
WORKS NUMBER :
TREATMENT :

: OMEMEE
: OMEMEE LAGOON
: 110001630
: LAGOON AND SPRAY
: NO DISCHARGE

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 653

DESIGN CAPACITY : 0.61 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.26	0.24	0.29	0.37	0.41	0.29	0.20	0.22	0.22	0.36	0.61	0.34	0.32	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	126.0	161.0	182.0	97.0	88.0	280.0	242.0	255.0	171.0	174.0	97.0	110.0	165.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	66.0	297.0	318.0	145.0	120.0	154.0	191.0	218.0	107.0	156.0	89.0	92.0	162.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	15.0	9.7	4.5	4.5	15.0	15.0	11.3	8.1	8.1	5.2	5.9	9.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	NO DIRECT DISCHARGE
BOD	NA	NO DIRECT DISCHARGE	
SS	NA	NO DIRECT DISCHARGE	
TP	NA	NO DIRECT DISCHARGE	

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY	: ORILLIA	REGION	: CENTRAL
PLANT	: ORILLIA WPCP	DISTRICT	: SIMCOE
WORKS NUMBER	: 120000569	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LAKE SIMCOE
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 21.04 (1000 M3)	POPULATION SERVED	: 24,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.73	16.96	21.60	27.80	22.84	20.51	16.75	16.87	18.35	18.99	25.92	18.18	20.29	
BOD5														
INFLUENT (MG/L)	120.0	166.0	61.0	71.0	86.0	94.0	137.0	91.0	136.0	106.0	ND	90.0	105.3	
EFFLUENT (MG/L)	9.7	10.8	6.1	7.8	3.9	9.3	18.7	13.0	29.8	21.0	7.6	25.2	13.6	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	181.68	183.16	131.76	216.84	89.07	190.74	313.22	219.31	546.83	398.79	196.99	458.13	275.94	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	166.0	169.0	130.0	112.0	162.0	179.0	209.0	179.0	222.0	175.0	103.0	92.0	158.2	
EFFLUENT (MG/L)	17.9	11.5	14.0	16.0	8.2	6.0	4.4	6.5	10.3	10.0	9.7	19.5	11.2	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	335.26	195.04	302.40	444.80	187.28	123.06	73.70	109.65	189.00	189.90	251.42	354.51	227.25	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	5.0	2.4	2.7	3.2	4.1	4.1	2.7	4.4	4.9	1.3	5.1	3.7	
EFFLUENT (MG/L)	0.6	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.5	0.4	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	11.23	6.78	6.48	8.34	6.85	6.15	3.35	5.06	7.34	5.69	7.77	9.09	8.12	
LOADING LIMIT (KG/D)														

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED ANNUALLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY			
PARAM	CRITERIA	LOADING	COMPLIES WITH CONC
BOD	15.0 MG/L	NA	YES
SS	15.0 MG/L	NA	YES
TP	0.3 MG/L	NA	NO

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE END DATE ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ORILLIA
PLANT : ORILLIA WPCP
WORKS NUMBER : 120000569
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: :
DESIGN CAPACITY : 21.04 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 24,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.73	16.96	21.60	27.80	22.84	20.51	16.75	16.87	18.35	18.99	25.92	16.18	20.29	
BOD5 INFLUENT (MG/L)	120.0	166.0	61.0	71.0	86.0	94.0	137.0	91.0	136.0	106.0	ND	90.0	105.3	
EFFLUENT (MG/L)	9.7	10.8	6.1	7.8	3.9	9.3	18.7	13.0	29.8	21.0	7.6	25.2	13.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	181.68	183.16	131.76	216.84	89.07	190.74	313.22	219.31	546.83	398.79	196.99	450.13	275.94	
SUSPENDED SOLIDS INFLUENT (MG/L)	166.0	169.0	130.0	112.0	162.0	179.0	209.0	179.0	222.0	175.0	103.0	92.0	150.2	
EFFLUENT (MG/L)	17.9	11.5	14.0	16.0	8.2	6.0	4.4	6.5	10.3	10.0	9.7	19.5	11.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	335.26	195.04	302.40	444.80	187.28	123.06	73.70	109.65	189.00	189.90	251.42	354.51	227.25	
TOTAL PHOSPHORUS INFLUENT (MG/L)	4.1	5.0	2.4	2.7	3.2	4.1	4.1	2.7	4.4	4.9	1.3	5.1	3.7	
EFFLUENT (MG/L)	0.6	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.5	0.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.23	6.78	6.48	8.34	6.85	6.15	3.35	5.06	7.34	5.69	7.77	9.09	8.12	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE END DATE ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OSHAWA
 PLANT : HARMONY CR WPCP NO 1
 WORKS NUMBER : 120000774
 TREATMENT : TRICKLING FILTER
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 34.09 (1000 M3)

REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE :
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 102,938

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.38	17.46	16.90	21.72	17.63	22.65	19.00	18.61	18.58	19.34	ND	24.58	19.53	
BOD5 INFLUENT (MG/L)	168.0	104.0	99.0	92.0	124.0	171.0	146.0	131.0	137.0	130.0	89.0	167.0	129.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
SUSPENDED SOLIDS INFLUENT (MG/L)	292.0	175.0	210.0	132.0	212.0	317.0	219.0	144.0	136.0	175.0	89.0	251.0	196.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.9	6.2	2.7	4.8	4.7	5.7	5.1	5.7	5.8	6.3	3.1	10.1	5.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.4	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES
BOD	25.0 MG/L	WITH CONC
SS	25.0 MG/L	NO DIRECT DISCHARGE
TP	1.0 MG/L	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: OSHAWA	REGION	: CENTRAL
PLANT	: HARMONY CR WPCP NO 2	DISTRICT	: DURHAM, REG. MUN.
WORKS NUMBER	: 120001657	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	:
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 34.09 (1000 M3)	POPULATION SERVED	: 51,469

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	25.72	28.60	28.69	28.91	34.84	27.49	23.88	22.93	25.07	29.89	35.28	27.55	28.24	
BOD5														
INFLUENT (MG/L)	190.0	177.0	158.0	140.0	133.0	184.0	426.0	153.0	161.0	110.0	65.0	192.0	174.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	178.0	264.0	52.0	118.0	168.0	162.0	564.0	116.0	147.0	93.0	78.0	225.0	180.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	9.4	8.3	8.0	5.0	7.5	8.2	8.5	8.4	6.9	3.7	8.7	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

- EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	DISCHARGE
BOD	25.0 MG/L	NO DIRECT	DISCHARGE
SS	25.0 MG/L	NO DIRECT	DISCHARGE
TP	1.0 MG/L	NO DIRECT	DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: OSHAWA
: HARMONY CREEK 182 COMBINED EFFLUENT
: 120003254
: CONVENTIONAL ACTIVATED SLUDGE
: TRICKLING FILTER
: PHOSPHORUS REMOVAL-CONTINUOUS
: 0.00 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : L. ONT. (COMBINED EFF. 182)
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	44.09	46.06	45.60	50.63	52.48	50.14	42.88	41.55	43.66	49.23	63.49	52.12	48.49	
BOD5 INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	17.7	24.5	25.6	14.7	13.8	18.0	41.7	39.6	26.0	35.1	27.4	33.7	26.5*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	780.39	1128.47	1167.36	744.26	724.22	902.52	1788.09	1645.38	1135.16	1727.97	1739.62	1756.44	1284.99	
SUSPENDED SOLIDS INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	17.0	17.3	22.4	14.6	17.7	21.9	16.5	21.1	13.5	16.8	15.6	21.2	18.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	749.53	796.83	1021.44	739.19	928.69	1098.06	707.52	876.70	589.41	827.06	1003.14	1104.94	872.82	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	0.8	0.9	0.9	0.7	0.9	0.9	1.0	1.0	0.9	0.9	0.8	1.3*	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	35.27	41.45	41.04	35.44	47.23	45.12	42.88	41.55	39.29	44.30	50.79	67.75	43.64	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY
COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L NO
SS 25.0 MG/L YES
TP 1.0 MG/L NO

REMEDIAL MEASURES

COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED

START DATE END DATE ANTICIPATED
COMPLIANCE

1990/07 1990/12 1990/01
1990/01 1990/01 1990/01
1990/06 1990/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PENETANGUISHENE
 PLANT : FOX ST. WPCP
 WORKS NUMBER : 120001960
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.50 (1000 M3)
 REGION : CENTRAL
 DISTRICT : SIMCOE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : PENETANGUISHENE HARBOUR
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.13	1.06	1.30	1.31	1.22	1.16	1.05	0.91	0.97	1.03	1.18	1.04	1.11	
BOD5 INFLUENT (MG/L)	91.0	113.0	82.0	73.0	96.0	93.0	106.0	166.0	94.0	80.0	94.0	72.0	96.7	
EFFLUENT (MG/L)	8.2	4.4	2.5	10.7	10.3	2.1	4.1	1.0	3.7	3.5	2.2	2.8	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.26	4.66	3.25	14.01	12.56	2.43	4.30	0.91	3.58	3.60	2.59	2.91	5.11	
SUSPENDED SOLIDS INFLUENT (MG/L)	56.0	133.0	104.0	84.0	156.0	15.0	151.0	180.0	113.0	101.0	134.0	100.0	110.8	
EFFLUENT (MG/L)	13.7	12.0	6.0	25.0	9.5	2.0	8.5	2.5	12.0	10.5	2.7	5.6	9.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.48	12.72	7.80	32.75	11.59	2.32	8.92	2.27	11.64	10.81	3.18	5.82	10.21	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.3	5.2	4.0	3.2	4.7	5.0	5.4	6.1	4.4	3.8	3.3	14.2	5.3	
EFFLUENT (MG/L)	1.1*	0.5	0.4	0.4	0.5	0.5	0.6	0.6	0.9	0.8	0.5	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.24	0.53	0.52	0.52	0.61	0.58	0.63	0.54	0.87	0.82	0.59	0.52	0.67	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

START DATE END DATE
 ANTICIPATED COMPLIANCE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED
 FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED
 FACILITY EXPANSION/UPGRADING - APPLICATION FOR FUNDING

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PENETANGUISHENE REGION : CENTRAL
 PLANT : PENETANGUISHENE WPCP MAIN ST PLANT I1 DISTRICT : SIMCOE
 WORKS NUMBER : 120000541 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : CONTACT STABILIZATION WATERCOURSE : PENETANG BAY
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 3.00 (1000 M3) POPULATION SERVED : 4,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	2.16	9.93	3.11	3.01	2.84	2.59	2.13	3.48	2.59	2.99	2.67	3.41	
BOD5														
INFLUENT (MG/L)	ND	92.0	ND	80.0	75.0	117.0	125.0	145.0	178.0	5.0	99.0	103.0	101.9	
EFFLUENT (MG/L)	ND	1.2	ND	7.6	4.9	7.8	10.8	8.2	6.8	2.0	15.7	5.6	7.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	2.59	ND	23.63	14.74	22.15	27.97	17.46	23.66	5.18	46.94	14.95	24.21	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	124.0	ND	120.0	104.0	148.0	142.0	129.0	146.0	272.0	125.0	123.0	143.3	
EFFLUENT (MG/L)	ND	3.0	ND	12.3	5.5	6.8	7.8	5.5	16.1	3.0	8.1	4.0	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	6.48	ND	38.25	16.55	19.31	20.20	11.71	56.02	7.77	24.21	10.68	24.55	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	4.0	ND	3.0	3.5	4.8	4.4	5.3	4.1	5.3	4.1	4.7	4.3	
EFFLUENT (MG/L)	ND	0.6	ND	0.4	0.6	0.7	0.5	1.0	1.7*	0.6	1.8*	0.5	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	1.29	ND	1.24	1.80	1.98	1.29	2.13	5.91	1.55	5.38	1.33	2.73	

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS MONTHLY
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PERCY
PLANT : WARKWORTH LAGOON
WORKS NUMBER : 120001933
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MILL CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 457

DESIGN CAPACITY : 0.39 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.26	0.24	0.26	0.27	0.32	0.32	0.25	0.24	0.25	0.27	0.32	0.32	0.28	
LAGOON DISCHARGE	ND	ND	ND	ND	14.60	ND	ND	ND	ND	ND	ND	ND	14.60	
BOD5														
INFLUENT (MG/L)	250.0	91.0	118.0	50.0	70.0	70.0	90.0	116.0	84.0	52.0	106.0	104.0	100.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	4.4	ND	ND	ND	ND	ND	ND	ND	4.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	1.40	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	1.40	ND	ND	ND	ND	ND	ND	ND	1.23	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	96.0	120.0	170.0	80.0	99.0	99.0	87.0	79.0	81.0	55.0	99.0	101.0	97.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	29.0	ND	ND	ND	ND	ND	ND	ND	29.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	9.28	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	9.28	ND	ND	ND	ND	ND	ND	ND	8.12	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.9	ND	ND	3.0	5.8	5.8	4.2	6.5	5.6	5.6	5.9	7.5	5.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	0.17	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PETERBOROUGH
 PLANT : PETERBOROUGH WPCP
 WORKS NUMBER : 120000676
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 68.19 (1000 M3)

REGION : CENTRAL
 DISTRICT : PETERBOROUGH
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : OTONABEE RIVER
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 62,945

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	45.62	44.20	46.44	53.20	56.76	59.13	50.52	50.07	53.88	50.98	64.70	48.99	52.04	
BOD5														
INFLUENT (MG/L)	118.0	118.0	142.0	122.0	98.0	78.0	87.0	92.0	101.0	98.0	92.0	116.0	105.2	
EFFLUENT (MG/L)	11.7	13.7	13.1	11.2	6.1	6.8	3.8	5.6	6.0	6.5	20.1	17.7	10.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	533.75	605.54	608.36	595.84	346.23	402.08	191.97	280.39	323.28	331.37	1300.47	867.12	530.81	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	146.0	143.0	177.0	128.0	113.0	100.0	126.0	142.0	ND	114.0	98.0	109.0	126.9	
EFFLUENT (MG/L)	9.0	10.0	11.0	11.0	7.0	5.0	4.0	4.0	12.0	9.0	9.0	16.0	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	410.58	442.00	510.84	585.20	397.32	295.65	202.08	200.28	646.56	458.82	582.30	783.84	463.16	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	4.8	4.9	4.4	3.4	3.7	4.0	4.1	4.3	4.3	3.6	4.3	4.3	
EFFLUENT (MG/L)	0.9	1.0	1.0	1.0	0.8	1.0	1.0	1.0	0.9	1.0	0.8	1.0	1.0	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	41.05	44.20	46.44	53.20	45.40	59.13	50.52	50.07	48.49	50.98	51.76	48.99	52.04	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	YES	YES
BOD	25.0 MG/L	YES	YES
SS	25.0 MG/L	YES	YES
TP	1.0 MG/L	YES	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: PICKERING	REGION	: CENTRAL
PLANT	: DUFFIN CREEK WPCP (YORK-DURHAM)	DISTRICT	: DURHAM, REG. MUN.
WORKS NUMBER	: 120001915	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LAKE ONTARIO
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 181.84 (1000 M3)	POPULATION SERVED	: 64,386

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	187.41	184.69	187.90	102.32	213.52	218.62	188.21	197.69	208.04	206.72	233.04	196.01	193.68	
BOD5														
INFLUENT (MG/L)	158.0	183.0	193.0	171.0	179.0	144.0	162.0	177.0	194.0	172.0	117.0	142.0	166.0	
EFFLUENT (MG/L)	20.6	21.2	21.9	20.4	26.5	27.6	13.9	27.1	27.7	31.6	30.5	32.6	25.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3860.64	3915.42	4115.01	2087.32	5658.28	6033.91	2616.11	5357.39	5762.70	6532.35	7107.72	6389.92	4861.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	282.0	284.0	289.0	295.0	273.0	238.0	269.0	305.0	243.0	254.0	190.0	184.0	258.8	
EFFLUENT (MG/L)	16.5	15.7	16.5	12.0	21.6	19.7	24.7	19.0	18.3	17.9	47.0	17.2	20.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3092.26	2899.63	3100.35	1227.84	4612.03	4306.81	4648.78	3756.11	3807.13	3700.28	952.88	3371.37	3970.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.8	6.4	6.6	6.1	5.2	6.4	7.1	6.1	6.2	6.5	5.6	6.0	6.3	
EFFLUENT (MG/L)	0.8	0.6	1.0	0.5	1.0	1.0	0.9	1.0	0.9	1.0	1.3	0.6	0.9	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	149.92	110.81	187.90	51.16	213.52	218.62	169.38	197.69	187.23	206.72	302.95	117.60	174.31	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989/08	1990/01	
1989	1992	1990/01

REMEDIAL MEASURES

OPERATIONAL/PROCESS - CONDUCTING TREATABILITY STUDIES
 FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT HOPE
 PLANT : PORT HOPE WPCP
 WORKS NUMBER : 120000079
 TREATMENT : HIGH RATE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 : 9.09 (1000 M3)
 DESIGN CAPACITY :
 :
 : 9,700

REGION : CENTRAL
 DISTRICT : NORTHUMBERLAND
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 9,700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.42	3.96	4.93	6.75	6.63	6.32	4.54	4.43	4.84	5.08	7.56	4.14	5.30	
BOD5 INFLUENT (MG/L)	186.0	162.0	193.0	164.0	178.0	162.0	129.0	110.0	96.0	113.0	94.0	82.0	139.1	
EFFLUENT (MG/L)	17.5	19.1	19.8	13.3	8.5	6.3	5.1	2.7	2.6	3.0	2.3	4.6	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	77.35	76.01	97.61	89.77	56.35	39.81	23.15	11.96	12.58	15.24	17.38	19.04	46.11	
SUSPENDED SOLIDS INFLUENT (MG/L)	100.0	93.0	114.0	88.0	100.0	111.0	92.0	109.0	100.0	116.0	92.0	86.0	100.1	
EFFLUENT (MG/L)	10.9	10.3	10.3	10.3	7.4	4.0	5.6	6.1	5.9	5.9	6.3	4.1	7.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	46.17	40.99	50.77	69.52	49.06	25.28	25.42	27.02	28.55	29.97	47.62	16.97	38.69	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	2.7	3.1	3.6	2.7	2.7	2.9	2.7	2.9	2.9	2.9	2.6	2.8	2.9	
EFFLUENT (MG/L)	0.6	0.8	1.0	0.8	0.6	0.6	0.8	0.5	1.0	1.0	0.6	0.8	0.8	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	2.65	3.18	4.93	5.40	3.97	3.79	3.63	2.21	4.84	5.08	4.53	3.31	4.24	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT MCNICOLL
 PLANT : PORT MCNICOLL WPCP
 WORKS NUMBER : 110001417
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.04 (1000 M3)

REGION : CENTRAL
 DISTRICT : SIMCOE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GEORGIAN BAY
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,926

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.82	0.63	0.98	1.04	0.94	0.75	0.58	0.54	0.69	0.67	1.02	0.66	0.78	
BOD5														
INFLUENT (MG/L)	60.5	105.5	93.0	58.8	84.1	81.0	56.8	118.5	94.9	69.6	97.5	87.8	84.0	
EFFLUENT (MG/L)	12.2	10.1	8.8	3.4	9.2	9.6	8.7	9.3	6.9	3.6	5.9	5.4	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.00	6.36	8.62	3.53	8.64	7.20	5.04	5.02	4.76	2.41	6.01	3.56	6.08	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.5	129.0	108.0	88.0	82.5	101.0	104.0	123.0	121.5	78.0	76.0	124.0	99.6	
EFFLUENT (MG/L)	7.9	7.5	7.0	10.0	4.8	4.3	7.3	5.0	3.8	1.1	3.8	5.3	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.47	4.72	6.86	10.40	4.51	3.22	4.23	2.70	2.62	0.73	3.87	3.49	4.45	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	5.9	5.8	4.0	3.0	5.6	4.9	6.1	5.0	4.7	3.8	5.1	4.8	
EFFLUENT (MG/L)	0.3	0.4	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.24	0.25	0.29	0.20	0.28	0.22	0.23	0.21	0.27	0.20	0.20	0.19	0.23	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SCUGOG
 PLANT : NONQUON RIVER LAGOON (PORT PERRY)
 WORKS NUMBER : 110001257
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT CHLORINATION
 : 3.64 (1000 M3)
 DESIGN CAPACITY :
 REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE SCUGOG
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,215

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.11	1.96	2.04	2.54	2.91	2.65	1.98	1.98	2.06	2.20	3.19	2.20	2.32	
LAGOON DISCHARGE	ND	ND	ND	313.67	209.12	ND	ND	ND	ND	ND	77.14	118.61	179.64	
BOD5														
INFLUENT (MG/L)	ND	143.0	154.0	151.0	173.0	ND	158.0	413.0	178.0	150.0	62.0	155.0	173.7	
EFFLUENT (MG/L)	ND	ND	ND	14.2	7.9	ND	ND	ND	ND	ND	13.0	6.1	10.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	36.06	22.98	ND	ND	ND	ND	ND	41.47	13.42	23.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	196.0	209.0	244.0	164.0	244.0	120.0	143.0	414.0	221.0	193.0	83.0	157.0	199.0	
EFFLUENT (MG/L)	ND	ND	ND	26.3	15.3	ND	ND	ND	ND	ND	6.0	3.3	12.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	66.80	44.52	ND	ND	ND	ND	ND	19.14	7.26	29.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	11.4	10.7	8.7	16.1	8.4	7.1	41.2	7.7	6.9	3.0	8.3	11.8	
EFFLUENT (MG/L)	ND	ND	ND	0.5	0.3	ND	ND	ND	ND	ND	0.2	0.1	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	1.27	0.87	ND	ND	ND	ND	ND	0.63	0.22	0.70	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

START DATE 1989/03
 END DATE 1989/08
 ANTICIPATED COMPLIANCE

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SMITH
: WOODLAND ACRES WPCP
: 110002381
: EXTENDED AERATION

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTONABEE R.
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 435

DESIGN CAPACITY : 0.36 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.17	0.23	0.28	0.30	0.34	0.16	0.13	0.18	0.19	0.19	0.20	0.21	
BOD5														
INFLUENT (MG/L)	38.0	35.0	71.0	18.0	21.0	48.0	64.0	104.0	67.0	84.0	74.0	38.0	55.2	
EFFLUENT (MG/L)	10.4	3.2	2.5	1.5	1.0	1.9	0.8	0.3	0.3	0.2	3.2	4.1	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.76	0.54	0.57	0.42	0.30	0.64	0.12	0.03	0.05	0.03	0.60	0.82	0.53	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	41.0	62.0	140.0	36.0	57.0	60.0	87.0	118.0	133.0	132.0	93.0	31.0	82.5	
EFFLUENT (MG/L)	11.3	7.3	7.5	3.0	4.5	3.2	2.5	4.5	3.3	0.5	5.9	6.9	5.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.92	1.24	1.72	0.84	1.35	1.08	0.40	0.58	0.59	0.09	1.12	1.38	1.05	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	2.8	3.0	1.1	0.9	2.6	2.8	11.3	5.4	5.0	3.1	1.5	3.6	
EFFLUENT (MG/L)	3.0	1.3	0.6	0.3	0.4	0.7	0.7	0.7	0.5	0.5	0.6	0.7	0.8	
CONCENTRATION LIMIT (MG/L)													0.17	
LOADING (KG/D)	0.51	0.22	0.13	0.08	0.12	0.23	0.11	0.09	0.09	0.09	0.11	0.14	0.17	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHOROUS REMOVAL BEING UPGRADED

START DATE END DATE
ANTICIPATED COMPLIANCE

1989/03

1992 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: STAYNER
: STAYNER LAGOON
: 110000695
: AERATED CELL PLUS LAGOON
: SEASONAL DISCHARGE
: PHOSPHORUS REMOVAL - BATCH
: 1.04 (1000 M3)

DESIGN CAPACITY

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAMONT CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,975

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.86	1.50	1.65	1.82	1.65	1.50	1.30	1.23	1.15	1.32	1.45	1.41	1.49	
LAGOON DISCHARGE	46.93	41.99	51.15	112.72	76.65	ND	83.60	ND	83.60	76.65	ND	ND	71.66	
BOD5														
INFLUENT (MG/L)	293.0	883.0	166.0	662.0	370.0	858.0	822.0	218.0	351.0	799.0	1,040.0	612.0	589.5	
EFFLUENT (MG/L)	ND	ND	ND	18.3	31.8	ND	11.1	ND	11.5	17.8	ND	ND	18.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	33.30	52.47	ND	14.43	ND	13.22	23.49	ND	ND	26.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	172.0	190.0	179.0	217.0	193.0	213.0	279.0	175.0	290.0	270.0	253.0	220.0	220.9	
EFFLUENT (MG/L)	ND	ND	ND	21.7	35.0	ND	29.0	ND	23.0	22.8	ND	ND	26.34	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	39.49	57.75	ND	37.70	ND	26.45	30.09	ND	ND	39.19	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	5.2	8.1	6.2	9.5	8.6	19.2	9.8	7.4	15.3	9.8	18.7	12.6	10.9	
EFFLUENT (MG/L)	ND	ND	ND	0.3	0.8	ND	0.3	ND	0.5	ND	ND	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	0.54	1.32	ND	0.39	ND	0.57	ND	ND	ND	0.75	

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	NO
TP 1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
OPERATIONAL/PROCESS - CONVERTING TO ALTERNATIVE PROCESS
FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE END DATE ANTICIPATED COMPLIANCE

1991/07 1991/08
1991/11 1991/08

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TOTTENHAM WPCP (MUN OCT 1 1989) REGION : CENTRAL
 PLANT : TOTTENHAM DISTRICT : GREY
 WORKS NUMBER : 110002531 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : SUTTON PROCESS WATERCOURSE :
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 2.25 (1000 M3) POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.31	1.32	1.42	1.77	1.82	1.56	1.29	1.28	1.42	1.34	1.76	1.33	1.47	
BOD5 INFLUENT (MG/L)	106.5	157.5	134.0	139.0	96.5	112.5	117.5	156.0	133.5	146.0	135.0	172.0	133.8	
EFFLUENT (MG/L)	4.1	2.2	4.8	10.4	4.2	7.2	2.3	4.8	1.8	0.8	3.5	0.2	3.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.37	2.90	6.81	18.40	7.64	11.23	2.96	6.14	2.55	1.07	6.16	0.26	5.73	
SUSPENDED SOLIDS INFLUENT (MG/L)	127.5	192.0	236.0	243.5	145.0	194.0	171.5	158.5	268.5	174.0	176.0	204.0	190.9	
EFFLUENT (MG/L)	7.7	4.0	17.5	27.8	5.8	10.2	6.3	4.0	7.5	2.5	4.0	0.2	8.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	10.08	5.28	24.85	49.20	10.55	15.91	8.12	5.12	10.65	3.35	7.04	0.26	11.91	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	10.2	9.3	13.6	6.9	6.8	9.9	9.4	11.1	16.1	7.1	5.8	6.9	9.4	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.2	0.3	0.4	0.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.26	0.26	0.42	0.53	0.54	0.31	0.25	0.51	0.42	0.26	0.52	0.53	0.44	

NOTE:
 BOD - HAS NO CRITERIA
 SS - HAS NO CRITERIA
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : UXBRIDGE BROOK WPCP
 PLANT : UXBRIDGE BROOK WPCP
 WORKS NUMBER : 120000756
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 : 3.63 (1000 M3)
 DESIGN CAPACITY : 4,550

REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : UXBRIDGE BROOK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,550

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.13	0.97	1.05	1.24	1.65	1.51	1.23	1.66	1.69	1.67	3.73	2.53	1.67	
BOD5														
INFLUENT (MG/L)	186.0	271.0	140.0	131.0	75.0	184.0	122.0	164.0	198.0	166.0	87.0	172.0	158.0	
EFFLUENT (MG/L)	6.7	0.8	8.6	4.2	6.8	0.5	2.6	0.2	0.3	1.2	0.8	5.8	3.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.57	0.77	9.03	5.20	11.22	0.75	3.19	0.33	0.50	2.00	2.98	14.67	5.34	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	180.0	199.0	272.0	134.0	100.0	195.0	236.0	140.0	256.0	139.0	97.0	149.0	174.8	
EFFLUENT (MG/L)	10.0	5.5	26.5	21.5	23.5	2.3	7.5	2.5	3.0	1.4	0.5	2.4	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.30	5.33	27.82	26.66	38.77	3.47	9.22	4.15	5.07	2.33	1.86	6.07	14.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.5	2.6	6.2	3.6	4.0	2.6	6.4	5.6	7.3	6.2	4.0	5.7	5.5	
EFFLUENT (MG/L)	0.3	0.1	0.3	0.2	0.2	0.1	0.2	ND	0.2	0.2	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.23	0.09	0.31	0.24	0.33	0.15	0.24	ND	0.33	0.33	0.25	0.25	0.33	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY
 COMPLIES
 WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L YES

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

START DATE 1989/01
 END DATE 1990/03
 ANTICIPATED COMPLIANCE

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: VAUGHAN
 : KLEINBURG WPCP
 : 120000417
 : EXTENDED AERATION
 :
 :
 :
 : 0.22 (1000

REGION	: CENTRAL
DISTRICT	: YORK, REG. MUN.
OPERATING AUTHORITY	: MUNICIPAL
WATERCOURSE	: HUNTER RIVER
MINOR BASIN	: ONTARIO
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 900

0.22 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.19	0.19	0.20	0.23	0.23	0.24	0.16	0.21	0.19	0.19	0.29	0.21	0.21	
<u>BOD5</u>														
INFLUENT (MG/L)	151.0	142.0	126.0	82.0	85.0	189.0	119.0	93.0	50.0	117.0	37.0	181.0	114.3	
EFFLUENT (MG/L)	5.9	5.6	3.2	10.6	0.7	1.8	3.2	3.7	2.8	2.4	2.6	10.4	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.12	1.06	0.64	2.43	0.16	0.43	0.51	0.77	0.53	0.45	0.75	2.18	0.92	
<u>SUSPENDED SOLIDS</u>														
INFLUENT (MG/L)	116.0	191.0	165.0	58.0	86.0	191.0	141.0	97.0	57.0	115.0	57.0	165.0	119.9	
EFFLUENT (MG/L)	8.2	9.3	9.2	17.5	6.8	6.1	4.0	9.3	7.5	4.3	5.0	8.7	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.55	1.76	1.84	4.02	1.56	1.46	0.64	1.95	1.42	0.81	1.45	1.82	1.68	
<u>TOTAL PHOSPHOROUS</u>														
INFLUENT (MG/L)	5.8	8.4	6.8	4.5	3.8	8.4	5.0	5.4	5.0	16.8	2.8	6.4	6.6	
EFFLUENT (MG/L)	4.7	4.7	4.2	3.3	3.7	4.6	3.9	4.0	3.9	3.9	2.9	3.9	4.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.89	0.89	0.84	0.75	0.85	1.10	0.62	0.84	0.74	0.74	0.84	0.81	0.84	

<u>SUMMARY</u>	<u>CRITERIA</u>	<u>COMPLIES WITH CONC</u>
<u>PARAM</u>	25.0 MG/L	YES
BOD	25.0 MG/L	YES
SS	NA	NA
P		

NO REMEDIAL MEASURES REPORTED

BOD - ASSESSED ANNUALLY
 SSS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 W - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VICTORIA HARBOUR
 PLANT : VICTORIA HARBOUR WPCP
 WORKS NUMBER : 120003227
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 DESIGN CAPACITY : 2.36 (1000 M3)

REGION : CENTRAL
 DISTRICT : SIMCOE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GEORGIAN BAY
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,016

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.52	0.47	0.60	0.65	0.76	0.61	0.64	0.62	0.59	0.53	0.61	0.46	0.59	
BOD5														
INFLUENT (MG/L)	94.0	61.0	82.0	43.0	65.5	73.5	96.5	120.3	131.0	92.0	59.0	82.2	83.3	
EFFLUENT (MG/L)	5.4	0.5	0.5	0.6	2.0	0.5	4.9	0.4	0.4	0.4	2.0	2.8	1.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.80	0.23	0.30	0.39	1.52	0.30	3.13	0.24	0.23	0.21	1.22	1.28	1.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	99.5	99.5	135.0	50.0	77.5	110.5	205.5	171.7	311.5	259.0	82.6	69.6	139.3	
EFFLUENT (MG/L)	2.0	2.5	2.5	3.5	4.0	2.4	2.8	2.5	4.0	1.9	0.5	0.7	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.04	1.17	1.50	2.27	3.64	1.46	1.79	1.55	2.36	1.00	0.30	0.32	1.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	3.6	4.1	2.8	2.9	4.5	5.5	5.5	5.0	4.5	3.4	3.8	4.1	
EFFLUENT (MG/L)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.05	0.04	0.06	0.06	0.07	0.06	0.06	0.06	0.11	0.10	0.04	0.04	0.06	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

COMPLIES WITH CONC
 PARAM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WASAGA BEACH WPCP (SUM.POP.SERV.73000)
 PLANT : WASAGA BEACH
 WORKS NUMBER : 120001862
 TREATMENT : EXTENDED AERATION
 : EFFLUENT POLISHING
 : EXFILTRATION
 DESIGN CAPACITY : 5.77 (1000 M3)

REGION : CENTRAL
 DISTRICT : SIMCOE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : NO DISC.TO SURFACE WATER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.74	1.27	1.00	1.21	1.39	2.34	1.96	1.25	1.01	0.93	0.92	1.24	
BOD5 INFLUENT (MG/L)	85.0	115.5	236.5	172.0	124.0	65.5	253.5	119.0	92.5	77.0	85.5	67.5	124.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS INFLUENT (MG/L)	144.5	122.0	397.5	220.0	84.5	82.0	337.5	126.5	95.0	66.0	64.0	68.5	150.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS INFLUENT (MG/L)	5.4	5.5	8.1	5.6	4.6	3.4	7.1	6.5	4.6	4.2	4.2	4.2	5.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	NO DIRECT DISCHARGE
BOD	NA	NO DIRECT DISCHARGE	
SS	25.0 MG/L	NO DIRECT DISCHARGE	
TP	NA	NO DIRECT DISCHARGE	

NOTE:
 BOD - HAS NO CRITERIA
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: WHITBY	REGION	: CENTRAL
PLANT	: CORBETT CREEK WPCP	DISTRICT	: DURHAM, REG. MUN.
WORKS NUMBER	: 120000738	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LAKE ONTARIO
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 36.36 (1000 M3)	POPULATION SERVED	: 26,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	23.19	23.62	22.71	25.12	27.16	29.36	27.67	24.86	26.94	27.89	28.12	16.92	25.30	
BOD5														
INFLUENT (MG/L)	117.0	186.0	204.0	93.0	83.0	89.0	121.0	120.0	98.0	116.0	102.0	157.0	123.8	
EFFLUENT (MG/L)	10.9	18.3	22.0	9.5	12.1	12.1	18.5	4.1	16.1	18.7	17.7	32.0	16.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	252.77	432.24	499.62	238.64	328.63	355.25	511.89	101.92	433.73	521.54	497.72	541.44	404.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	172.0	294.0	296.0	220.0	155.0	118.0	118.0	131.0	218.0	214.0	159.0	177.0	189.3	
EFFLUENT (MG/L)	15.0	17.1	26.3	22.5	23.7	14.8	15.9	12.5	17.3	21.9	23.4	13.5	18.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	347.85	403.90	597.27	565.20	643.69	434.52	439.95	310.75	466.06	610.79	658.00	228.42	473.11	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.2	11.9	11.5	10.8	9.5	9.6	9.6	94.5	10.2	10.8	9.6	8.6	17.3	
EFFLUENT (MG/L)	0.8	0.8	0.9	0.8	1.0	1.0	0.7	0.8	0.8	0.9	1.0	1.0	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	18.55	18.89	20.43	20.09	27.16	29.36	19.36	19.88	21.55	25.10	28.12	16.92	22.77	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

REMEDIAL MEASURES

OPERATIONAL/PROCESS - CONDUCTING TREATABILITY STUDIES
 FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989/07	1989/11	
1989/10	1990/03	

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: WHITBY	REGION	: CENTRAL
PLANT	: PRINGLE CREEK WPCP NO 1	DISTRICT	: DURHAM, REG. MUN.
WORKS NUMBER	: 120000747	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: PRINGLE CREEK
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 5.68 (1000 M3)	POPULATION SERVED	: 10,925

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.96	2.65	2.67	3.81	3.62	3.31	2.05	2.70	2.54	2.24	3.25	2.51	2.86	
BOD5														
INFLUENT (MG/L)	ND	181.0	81.0	254.0	171.0	129.0	411.0	226.0	81.0	181.0	79.0	343.0	194.3	
EFFLUENT (MG/L)	11.2	8.6	16.3	14.3	18.2	7.5	33.0	4.0	16.4	9.3	34.8	5.1	14.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	33.15	22.79	43.52	54.48	65.88	24.82	67.65	10.80	41.65	20.83	113.10	12.80	42.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	485.0	609.0	522.0	344.0	401.0	439.0	438.0	581.0	545.0	668.0	448.0	614.0	507.8	
EFFLUENT (MG/L)	12.0	15.7	12.7	6.2	13.2	20.8	27.5	19.7	44.9	24.5	16.8	11.2	18.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	35.52	41.60	33.90	23.62	47.78	68.84	56.37	53.19	114.04	54.88	54.60	28.11	53.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	5.9	6.0	5.3	5.3	5.6	7.0	7.6	6.2	6.3	5.2	6.8	6.1	
EFFLUENT (MG/L)	0.6	0.7	0.4	0.6	0.5	0.6	0.5	0.6	0.7	0.5	0.4	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.77	1.85	1.06	2.28	1.81	1.98	1.02	1.62	1.77	1.12	1.30	1.25	1.72	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

: CENTRAL REGION
: DISTRICT
: OPERATING AUTHORITY
: WATERCOURSE
: MINOR BASIN
: MAJOR BASIN
: POPULATION SERVED

1	PRINGLE CREEK WPCP NO 2	120003101	CONVENTIONAL ACTIVATED SLUDGE	PHOSPHORUS REMOVAL-CONTINUOUS	9.09 (1000 M3)
2	WHITBY				
3	MUNICIPALITY				
4	PLANT				
5	WORKS NUMBER				
6	TREATMENT				
7	DESIGN CAPACITY				

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.08	3.45	3.61	5.41	5.95	4.41	2.88	4.06	3.46	3.07	5.84	3.67	4.16	
BOD5														
INFLUENT (MG/L)	ND	181.0	81.0	254.0	171.0	129.0	411.0	226.0	81.0	181.0	79.0	543.0	212.5	
EFFLUENT (MG/L)	9.1	25.6	31.4	8.5	9.3	2.5	8.3	8.0	3.1	4.9	16.1	5.6	11.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	37.12	88.32	113.35	45.98	55.33	11.02	23.90	32.48	10.72	15.04	94.02	20.55	45.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	485.0	609.0	522.0	344.0	401.0	439.0	438.0	561.0	545.0	668.0	448.0	614.0	507.8	
EFFLUENT (MG/L)	13.7	15.9	14.2	20.0	16.3	10.6	13.2	17.2	19.4	10.8	9.7	13.7	14.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	55.89	54.85	51.26	108.20	96.98	46.74	38.01	69.83	67.12	33.15	56.64	50.27	60.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	5.9	6.0	5.3	5.3	5.6	7.0	7.6	6.2	6.3	5.2	6.8	6.1	
EFFLUENT (MG/L)	0.7	0.6	0.5	0.6	0.4	0.5	0.4	0.6	0.8	0.5	0.5	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.85	2.07	1.80	3.24	2.38	2.20	1.15	2.43	2.76	1.53	2.92	2.93	2.50	

PARAM	SUMMARY	
	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:

NOTE:
 BOD - ASSESSED ANNUALLY
 SSS - ASSESSED ANNUALLY
 TTP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WHITCHURCH-STOUFFVILLE
 PLANT : STOUFFVILLE WPCP
 WORKS NUMBER : 120000408
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING
 : 3.86 (1000 M3)
 DESIGN CAPACITY : 5,500

REGION : CENTRAL
 DISTRICT : YORK, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : DUFFIN CREEK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.31	3.16	3.25	3.50	3.83	3.78	3.38	3.56	3.68	3.49	4.03	3.35	3.53	
BOD5														
INFLUENT (MG/L)	107.0	128.0	85.0	73.0	94.0	84.0	96.0	116.0	85.0	114.0	78.0	125.0	98.8	
EFFLUENT (MG/L)	3.5	3.8	4.5	3.6	1.5	3.6	1.8	3.5	0.5	0.3	1.8	1.8	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.58	12.00	14.62	12.60	5.74	13.60	6.08	12.46	1.84	1.04	7.25	6.03	8.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	224.0	140.0	168.0	128.0	107.0	117.0	137.0	122.0	133.0	94.0	158.0	136.6	
EFFLUENT (MG/L)	2.9	3.7	5.3	5.0	4.5	1.5	0.3	2.0	4.2	0.9	1.9	2.0	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.59	11.69	17.22	17.50	17.23	5.67	1.01	7.12	15.45	3.14	7.65	6.70	10.24	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	6.3	4.3	4.4	4.4	5.4	4.2	5.4	5.2	5.3	4.0	5.8	5.0	
EFFLUENT (MG/L)	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.99	0.94	0.97	1.05	1.53	1.13	1.01	1.42	1.84	1.04	1.61	1.34	1.41	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

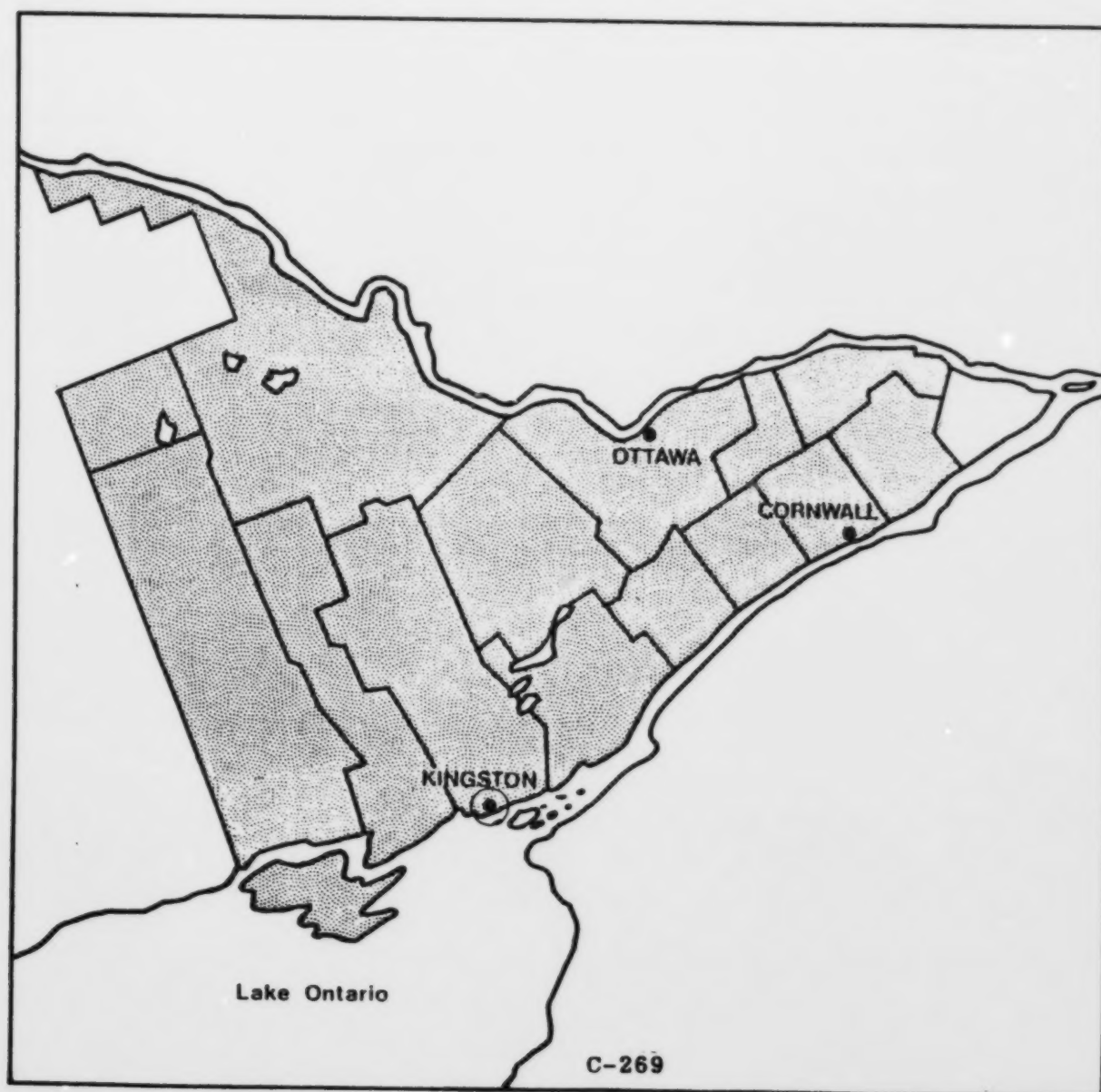
Southeastern Region

④



Ministry
of the
Environment

Ontario



Southeastern Region

④



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of the
Environment
Ontario

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Box 820
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SUB-OFFICES

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15 Victoria Ave.
K8N 1Z5
(613) 962-9208

Pembroke
1000 MacKay St.
K8B 1A3
(613) 732-3643

SOUTHEAST SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	2	13	15	10.23	559.73	569.96
Conventional Activated Sludge	4	3	7	96.03	40.00	136.03
Modified Activated Sludge	1	0	1	12.27	-	12.27
Contact Stabilization	1	2	3	1.36	8.68	10.04
Extended Aeration	11	4	15	7.87	3.87	11.74
High Rate	1	0	1	5.46	-	5.46
Communal Septic Tank	1	0	1	1.74	-	1.74
Convent. Lagoon Continuous	1	1	2	2.39	5.91	8.30
Conventional Lagoon Seasonal	10	3	13	9.76	6.01	15.77
Lagoon and Spray	1	1	2	0.34	0.36	0.70
Aerated Cell Plus Lagoon	3	0	3	15.62	-	15.62
Conventional Lagoon Annual	3	1	4	3.30	1.23	4.52
TOTALS	39	28	67	166.37	625.79	792.16

1000M3/D: Thousands of cubic meters per day
ADF: Average Daily Flow

SOUTHEAST SUMMARY - 1989

Treatment Type	Number			Annual ADF (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	2	13	15	9.01	632.31	641.32
Conventional Activated Sludge	4	3	7	60.55	35.01	95.56
Modified Activated Sludge	1	0	1	7.92	0.00	7.92
Contact Stabilization	1	2	3	1.59	4.27	5.86
Extended Aeration	11	4	15	6.25	2.15	8.40
High Rate	1	0	1	4.32	0.00	4.32
Communal Septic Tank	1	0	1	0.00	0.00	0.00
Convent. Lagoon Continuous	1	1	2	2.36	5.04	7.40
Conventional Lagoon Seasonal	10	3	13	7.68	7.25	14.93
Lagoon and Spray	1	1	2	0.22	0.00	0.22
Aerated Cell Plus Lagoon	3	0	3	10.36	0.00	10.36
Conventional Lagoon Annual	3	1	4	0.85	0.44	1.29
TOTALS	39	28	67	111.11	686.47	797.58

1000M3/D: Thousands of cubic meters per day

ADF: Average Daily Flow

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ALEXANDRIA LAGOON
: 110000846
: AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: 6.81 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DELISLE R
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,500

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.46	5.49	7.04	8.00	6.48	6.31	4.65	5.25	4.91	5.38	7.50	5.29	5.98	
LAGOON DISCHARGE	169.38	153.77	218.16	240.07	200.87	189.33	144.23	162.87	147.37	166.74	225.00	164.00	181.82	
BOD5														
INFLUENT (MG/L)	ND	72.0	80.0	36.0	27.0	85.0	57.0	61.0	94.0	108.0	97.0	314.0	93.7	
EFFLUENT (MG/L)	ND	42.0	43.0	16.0	5.4	12.1	15.0	4.3	8.7	10.3	12.3	13.6	16.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	230.58	302.72	128.00	34.99	76.35	69.75	22.57	42.71	55.41	92.25	71.94	99.27	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	71.0	90.0	54.0	45.0	72.0	51.0	56.0	64.0	82.0	57.0	3.0	5.0	54.2	
EFFLUENT (MG/L)	25.7	34.9	29.9	21.0	17.5	12.0	7.3	9.9	14.6	13.5	12.9	20.0	18.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	140.32	191.60	210.49	168.00	113.40	75.72	33.94	51.97	71.68	72.63	96.75	105.80	109.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	2.9	2.9	1.9	3.0	3.7	1.4	1.8	2.4	1.8	2.8	4.8	2.6	
EFFLUENT (MG/L)	0.5	1.0	0.9	0.7	0.7	0.6	0.4	0.5	0.2	0.5	0.6	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.73	5.49	6.33	5.60	4.53	3.78	1.86	2.62	0.98	2.69	4.50	3.70	3.59	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALFRED
 PLANT : ALFRED LAGOON
 WORKS NUMBER : 110001836
 TREATMENT : CONVENTIONAL LAGOON ANNUAL
 :
 :
 DESIGN CAPACITY : 0.71 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : RUISSEAU DES ATOCAS
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,055

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.47	0.43	0.49	0.55	0.63	0.66	0.48	0.52	0.48	0.53	0.59	0.45	0.52	
LAGOON DISCHARGE	ND	ND	ND	76.00	170.40	ND	ND	ND	ND	ND	ND	ND	123.20	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	149.0	84.0	188.0	115.0	195.0	121.0	176.0	445.0	184.1	
EFFLUENT (MG/L)	ND	ND	ND	59.0	4.0	ND	ND	ND	ND	ND	ND	ND	31.5M	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	275.0	350.0	160.0	157.0	1,220.0	185.0	983.0	178.0	221.0	242.0	441.0	900.0	442.7	
EFFLUENT (MG/L)	ND	ND	ND	29.8	15.0	ND	ND	ND	ND	ND	ND	ND	22.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	5.3	7.6	4.9	7.6	5.4	10.8	8.5	15.9	5.7	4.0	16.3	8.2	
EFFLUENT (MG/L)	ND	ND	ND	5.5	2.0	ND	ND	ND	ND	ND	ND	ND	3.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	
PACH	COMPLIES
CRITERIA	WITH CONC
BOD	30.0 MG/L NO
SS	40.0 MG/L YES
TP	NA NA

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	ALMONTE	:	REGION	:	SOUTHEAST
PLANT	:	ALMONTE LAGOON	:	DISTRICT	:	LANARK
WORKS NUMBER	:	110000873	:	OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
TREATMENT	:	AERATED CELL PLUS LAGOON	:	WATERCOURSE	:	MISSISSIPPI RIVER
	:	SEASONAL DISCHARGE	:	MINOR BASIN	:	OTTAWA RIVER
	:	PHOSPHORUS REMOVAL - BATCH	:	MAJOR BASIN	:	GREAT LAKES
DESIGN CAPACITY	:	5.45 (1000 M3)	:	POPULATION SERVED	:	4,040

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	1.44 ND	1.35 ND	2.79 ND	3.06 ND	2.93 ND	1.95 ND	1.91 ND	1.46 ND	1.41 ND	1.75 ND	3.14 ND	2.01 ND	2.10	
BOD5														
INFLUENT (MG/L)	207.0	160.0	112.0	160.0	46.0	66.0	11.0	ND	76.0	122.0	48.0	365.0	124.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	10.1	ND	ND	ND	ND	ND	ND	19.5	14.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	29.59	ND	ND	ND	ND	ND	ND	39.19	31.08	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	173.0	142.0	137.0	226.0	196.0	62.0	153.0	ND	75.0	228.0	51.0	671.0	192.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	18.1	ND	ND	ND	ND	ND	ND	29.5	23.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	53.03	ND	ND	ND	ND	ND	ND	59.29	49.98	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	6.7	5.4	3.2	3.8	4.5	0.7	ND	6.0	7.8	5.3	21.9	6.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	1.17	ND	ND	ND	ND	ND	ND	1.40	1.26	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. **) INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TSP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARNPRIOR
 PLANT : ARNPRIOR WPCP
 WORKS NUMBER : 120000621
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 6.81 (1000 M3)
 :
 REGION : SOUTHEAST
 DISTRICT : RENFREW
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : MADAWASKA RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.65	4.29	6.67	6.30	6.82	5.46	5.15	4.75	5.31	5.42	6.36	4.60	5.48	
BOD5														
INFLUENT (MG/L)	86.0	84.0	104.0	67.0	29.0	55.0	70.0	78.0	82.0	60.0	60.0	87.0	71.8	
EFFLUENT (MG/L)	63.0	55.5	60.0	52.0	27.0	41.5	37.5	56.0	57.0	34.5	35.0	62.5	48.5	
LOADING (KG/D)	292.95	238.09	400.20	327.60	184.14	226.59	193.12	266.00	302.67	186.99	222.60	287.50	265.78	
PERCENT REMOVAL	27	34	42	22	07	25	46	28	30	43	42	28	32*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	64.0	95.0	73.0	61.0	57.0	73.0	68.0	55.0	69.0	49.0	63.0	68.1	
EFFLUENT (MG/L)	32.0	29.1	39.1	27.0	34.2	27.9	26.8	30.0	25.8	25.0	19.0	24.5	28.4	
LOADING (KG/D)	148.80	124.83	260.79	170.10	233.24	152.33	138.02	142.50	136.99	135.50	120.84	112.70	152.63	
PERCENT REMOVAL	64	55	59	63	44	51	63	56	53	64	61	61	58*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	3.1	3.0	2.7	2.6	2.7	2.7	2.8	2.5	2.6	2.6	2.8	2.8	
EFFLUENT (MG/L)	0.9	1.1*	1.0	0.7	0.6	0.6	0.7	0.8	0.7	0.6	0.6	1.0	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	4.18	4.71	6.67	4.41	4.09	3.27	3.60	3.80	3.71	3.25	3.81	4.60	4.38	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	NO	NO
BOD	50%		
SS	70%		
TP	1.0 MG/L		

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

START DATE 1988
 END DATE 1992
 COMPLIANCE 1992

ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BANCROFT
: BANCROFT WPCP
: 110001239
: CONTACT STABILIZATION
:
:
: 4.13 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : YORK RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,095

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.09	1.07	1.24	1.37	1.43	1.37	1.21	1.12	1.07	1.13	1.25	1.17	1.21	
BOD5														
INFLUENT (MG/L)	116.0	ND	ND	58.0	59.0	57.0	49.0	67.0	65.0	99.0	96.0	90.0	75.6	
EFFLUENT (MG/L)	4.5	ND	3.0	13.0	17.5	14.5	2.0	9.0	20.0	8.8	12.5	18.0	11.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.90	ND	3.72	17.81	25.02	19.86	2.42	10.08	21.40	9.94	15.62	21.06	13.55	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	155.0	128.0	113.0	84.0	60.0	80.0	93.0	102.0	94.0	124.0	125.0	115.0	106.1	
EFFLUENT (MG/L)	7.7	8.5	5.4	6.8	9.3	11.6	9.0	9.0	12.4	5.8	11.2	9.0	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.39	9.09	6.69	9.31	13.29	15.89	10.89	10.08	13.26	6.55	14.00	10.53	10.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	ND	ND	2.0	3.2	4.3	4.2	5.1	6.4	5.5	4.8	4.7	4.6	
EFFLUENT (MG/L)	2.9	ND	1.8	0.7	1.1	2.2	2.1	2.5	3.7	2.5	5.9	2.4	2.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.16	ND	2.23	0.95	1.57	3.01	2.54	2.80	3.95	2.82	7.37	2.80	3.03	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BARRY'S BAY
 PLANT : BARRY'S BAY WPCP
 WORKS NUMBER : 110001854
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.24 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : KAMANISKEG LAKE
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,413

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.37	0.36	0.40	0.44	0.44	0.49	0.51	0.50	0.50	0.43	0.35	0.28	0.42	
BOD5														
INFLUENT (MG/L)	213.0	200.0	148.0	163.0	163.0	112.0	160.0	160.0	133.0	ND	182.0	240.0	170.4	
EFFLUENT (MG/L)	2.5	3.0	3.5	4.0	4.0	2.0	2.5	2.5	4.0	2.5	3.0	3.0	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.92	1.08	1.40	1.76	1.76	0.98	1.27	1.25	2.00	1.07	1.05	0.84	1.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	211.0	247.0	204.0	189.0	189.0	151.0	182.0	182.0	259.0	ND	271.0	240.0	211.4	
EFFLUENT (MG/L)	10.1	9.8	9.7	11.4	11.4	8.0	7.7	7.7	8.5	8.6	7.3	6.3	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.73	3.52	3.88	5.01	5.01	3.92	3.92	3.85	4.25	3.69	2.55	1.76	3.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	7.4	7.2	7.0	7.0	6.8	7.1	7.1	7.4	ND	6.2	5.0	6.8	
EFFLUENT (MG/L)	0.7	0.6	0.7	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.5	0.4	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.25	0.21	0.28	0.22	0.22	0.29	0.30	0.30	0.35	0.30	0.17	0.11	0.25	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURE REPORTED

MUNICIPALITY	:	BATH	:	1.16 (1000
PLANT	:	BATH WPCP	:	
WORKS NUMBER	:	120000177	:	
TREATMENT	:	EXTENDED AERATION	:	
	:		:	
	:		:	
DESIGN CAPACITY	:		:	

REGION	:	SOUTHEAST
DISTRICT	:	LENNOX & ADDINGTON
OPERATING AUTHORITY	:	MUNICIPAL
WATERCOURSE	:	LAKE ONTARIO
MINOR BASIN	:	ONTARIO
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,500

DESIGN CAPACITY : 1.16 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.02	0.98	1.07	0.80	0.85	0.88	0.56	1.16	0.91	0.95	1.15	0.86	0.93	
BOD5														
INFLUENT (MG/L)	187.0	82.0	357.0	142.0	95.0	169.0	168.0	340.0	185.0	175.0	340.0	213.0	204.4	
EFFLUENT (MG/L)	4.0	4.0	5.0	6.0	4.0	1.5	3.0	2.0	2.2	3.0	2.0	59.6	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.08	3.92	5.35	4.80	3.40	1.32	1.68	2.32	2.00	2.85	2.30	51.25	7.44	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	99.0	62.0	218.0	116.0	170.0	118.0	126.0	182.0	101.0	164.0	258.0	166.0	148.3	
EFFLUENT (MG/L)	9.5	7.0	18.5	13.5	7.0	4.0	7.0	2.5	7.3	10.0	14.0	44.6	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.69	6.86	19.79	10.80	5.95	3.52	3.92	2.90	6.64	9.50	16.10	38.35	11.25	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	3.7	10.3	6.2	4.7	6.3	4.7	7.8	5.3	5.8	9.7	6.8	6.4	
EFFLUENT (MG/L)	2.1	2.8	3.8	2.4	2.4	4.5	3.5	2.9	3.9	2.5	3.6	4.4	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.14	2.74	4.06	1.92	2.04	3.96	1.96	3.36	3.54	2.37	4.14	3.78	2.98	

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:

NOTE:

- BOD - ASSESSED ANNUALLY
- SS - ASSESSED ANNUALLY
- TP - HAS NO CRITERIA
- * - EXCEEDS EFFLUENT CRITERIA
- SPACE (EG. ") INDICATES A VALUE OF ZERO
- ND - NO DATA
- NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BELLEVILLE
 PLANT : BELLEVILLE WPCP (163500 M3/D.PRIMARY)
 WORKS NUMBER : 110000016
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 54.55 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BAY OF QUINTE
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 35,351

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	27.39	23.60	26.96	36.11	30.74	29.24	25.33	22.84	23.58	26.51	44.70	33.94	29.25	
BOD5														
INFLUENT (MG/L)	204.0	284.0	145.0	252.0	161.0	93.0	100.0	91.0	145.0	127.0	112.0	ND	155.8	
EFFLUENT (MG/L)	20.5	16.5	9.0	22.2	13.9	8.8	8.3	12.9	11.0	10.0	25.2	10.5	14.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	561.49	389.40	242.64	801.64	427.28	257.31	210.23	294.63	259.38	265.10	1126.44	356.37	412.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	119.0	128.0	123.0	116.0	113.0	116.0	112.0	156.0	118.0	127.0	ND	123.1	
EFFLUENT (MG/L)	9.1	8.4	6.9	13.2	7.1	7.7	10.6	5.5	4.1	8.0	32.5	7.9	10.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	249.24	198.24	186.02	476.65	218.25	225.14	268.49	125.62	96.67	212.08	1452.75	268.12	295.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.3	5.0	3.7	3.7	3.9	4.3	4.8	5.1	4.1	3.9	ND	4.4	
EFFLUENT (MG/L)	0.2	0.4	0.6	0.6	0.4	0.4	0.3	0.5	0.4	0.4	0.7	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	5.47	9.44	16.17	21.66	12.29	11.69	7.59	11.42	9.43	10.60	31.29	13.57	11.70	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: BROCKVILLE
: BROCKVILLE WPCP
: 120000122
: PRIMARY

: PHOSPHORUS REMOVAL-CONTINUOUS
: :
: 21.82 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 20,607

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.91	16.75	19.47	22.04	22.37	18.53	16.56	15.16	15.43	15.07	20.53	15.71	17.96	
BOD5														
INFLUENT (MG/L)	96.0	75.0	74.0	40.0	85.0	63.0	62.0	38.0	99.0	60.0	75.0	150.0	76.4	
EFFLUENT (MG/L)	61.5	52.0	62.5	22.0	24.0	52.0	30.0	18.0	35.5	26.0	25.5	46.0	37.9	
LOADING (KG/D)	1101.46	871.00	1216.87	484.88	536.88	963.56	496.80	272.88	547.76	391.82	523.51	722.66	680.68	
PERCENT REMOVAL	36	31	16	45	72	17	52	53	64	57	66	69	50	
PERCENT REMOVAL LIMITS														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	111.0	94.0	60.0	127.0	86.0	81.0	64.0	123.0	80.0	88.0	148.0	96.1	
EFFLUENT (MG/L)	42.6	38.6	56.0	24.0	33.6	35.8	23.6	23.5	34.8	24.6	32.6	41.8	34.3	
LOADING (KG/D)	762.96	646.55	1090.32	528.96	751.63	663.37	390.81	356.26	536.96	370.72	669.27	656.67	616.03	
PERCENT REMOVAL	53	65	40	60	74	58	71	63	72	69	63	72	64	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	4.8	4.1	2.9	4.8	5.4	3.8	3.6	4.7	4.3	4.1	6.9	4.5	
EFFLUENT (MG/L)	2.3	2.0	1.5	1.0	1.1	1.6	0.9	1.0	1.5	1.5	1.2	2.6	1.5	9
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	41.19	33.50	29.20	22.04	24.60	29.64	14.90	15.16	23.14	22.60	24.63	40.84	26.94	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	50%	YES
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE 1989/10
END DATE 1989/10
ANTICIPATED COMPLIANCE 1989/10

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CARLETON PLACE
 PLANT : CARLETON PLACE WPCP
 WORKS NUMBER : 110000971
 TREATMENT : HIGH RATE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 5.45 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : LANARK
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MISSISSIPPI RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.66	3.66	4.43	4.76	5.11	4.70	4.22	3.75	3.76	3.99	5.73	4.11	4.32	
BOD5														
INFLUENT (MG/L)	49.0	88.0	107.0	56.0	ND	57.0	50.0	ND	79.0	90.0	54.0	75.0	70.5	
EFFLUENT (MG/L)	36.0	45.0	52.0	26.0	ND	12.0	27.4	32.3	32.7	30.5	16.4	35.1	31.4*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	131.76	164.70	230.36	123.76	ND	56.40	115.62	121.12	122.95	121.69	93.97	144.26	135.65	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	59.0	86.0	191.0	63.0	ND	94.0	88.0	ND	130.0	120.0	70.0	60.0	96.1	
EFFLUENT (MG/L)	56.5	72.5	86.5	51.0	ND	25.0	41.1	45.7	46.2	76.1	47.0	84.8	57.5*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	206.79	265.35	363.19	242.76	ND	117.50	173.44	171.37	173.71	303.63	269.31	348.52	248.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.6	5.5	2.7	ND	4.5	3.7	ND	5.7	5.6	3.8	4.2	4.4	
EFFLUENT (MG/L)	2.5*	2.8*	3.1*	1.6*	ND	0.9	1.4*	1.5*	1.7*	2.6*	1.7*	3.1*	2.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	9.15	10.24	13.73	7.61	ND	4.23	5.90	5.62	6.39	10.37	9.74	12.74	9.07	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	NO
SS 25.0 MG/L	NO
TP 1.0 MG/L	NO

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE END DATE
 ANTICIPATED COMPLIANCE

1992
 1992

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CASSELMAN
 PLANT : CASSELMAN LAGOON
 WORKS NUMBER : 110002201
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : S. NATION RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,021

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.69	0.69	0.84	0.87	0.83	0.83	0.70	0.74	0.69	0.73	1.04	0.76	0.78	
LAGOON DISCHARGE	ND	ND	ND	ND	120.00	ND	ND	ND	ND	ND	115.20	ND	117.60	
BOD5														
INFLUENT (MG/L)	105.0	218.0	180.0	86.0	62.0	50.0	125.0	175.0	56.0	220.0	146.0	238.0	138.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND	5.7	ND	4.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	2.49	ND	ND	ND	ND	ND	5.92	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	2.49	ND	ND	ND	ND	ND	5.92	ND	3.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	67.0	356.0	120.0	63.0	72.0	46.0	93.0	200.0	32.0	118.0	189.0	189.0	128.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.8	ND	ND	ND	ND	ND	11.3	ND	9.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	5.64	ND	ND	ND	ND	ND	11.75	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	5.64	ND	ND	ND	ND	ND	11.75	ND	7.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	14.2	6.7	4.7	4.4	4.3	6.3	8.1	5.1	13.6	7.1	8.9	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	0.3	ND	0.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	0.31	ND	0.62	
LOADING (KG/D)	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	0.31	ND	0.62	

SUMMARY COMPLIES
 WITH CONC
 PARAM CRITERIA
 BOD 30.0 MG/L YES
 SS 40.0 MG/L YES
 TP NA NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

START DATE END DATE
 ANTICIPATED COMPLIANCE

1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHALK RIVER
 PLANT : CHALK RIVER WPCP
 WORKS NUMBER : 110001587
 TREATMENT : EXTENDED AERATION
 : CONVERTIBLE OPERATING MODE
 :
 DESIGN CAPACITY : 0.54 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DUCK CR TO DUCK LAKE
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 986

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.38	0.36	0.39	0.40	0.47	0.44	0.43	0.43	0.40	0.37	0.36	0.38	0.40	
BOD5														
INFLUENT (MG/L)	76.0	139.0	107.0	131.0	124.0	61.0	165.0	96.0	139.0	105.0	114.0	61.0	109.8	
EFFLUENT (MG/L)	11.5	22.6	21.7	11.4	11.8	11.5	16.0	9.3	7.9	5.8	5.5	4.0	11.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.37	8.13	8.46	4.56	5.54	5.06	6.88	3.99	3.16	2.14	1.98	1.52	4.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	139.0	149.0	130.0	137.0	115.0	173.0	172.0	123.0	136.0	122.0	136.0	146.0	139.8	
EFFLUENT (MG/L)	23.7	27.0	23.3	14.4	16.2	16.9	21.3	19.2	14.9	17.0	13.4	12.7	18.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.00	9.72	9.08	5.76	7.61	7.43	9.15	8.25	5.96	6.29	4.82	4.82	7.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	6.4	4.3	4.3	4.7	2.9	5.8	6.6	6.4	4.7	6.8	2.5	4.9	
EFFLUENT (MG/L)	2.7	4.3	2.9	1.6	1.6	1.7	1.6	1.8	2.4	2.5	2.1	2.0	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.02	1.54	1.13	0.64	0.75	0.74	0.68	0.77	0.96	0.92	0.75	0.76	0.92	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHARLOTTENBURGH
 PLANT : PURCELL WPCP OP. NOV 89
 WORKS NUMBER : 110002684
 TREATMENT : EXTENDED AERATION
 : CONTACT STABILIZATION
 :
 DESIGN CAPACITY : 0.52 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : STORMONT, DUNDAS AND GLENGARRY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ST. LAWRENCE
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 582

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.14	
BOD														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	203.0	114.0
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	2.6	2.6
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	0.39	25.0
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	0.39	0.36
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	153.0	323.0	236.0
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.4	22.0	16.7
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	3.06	25.0
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	3.06	2.62
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	4.7	3.6
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	1.6	1.2
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	0.22	0.17
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	0.22	0.17

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD	25.0 MG/L INSUFFICIENT DATA
SS	25.0 MG/L INSUFFICIENT DATA
TP	NA INSUFFICIENT DATA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHESTERVILLE
 PLANT : CHESTERVILLE LAGOON
 WORKS NUMBER : 110000114
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 1.04 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : STORMONT, DUNDAS AND GLENGARRY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SOUTH NATION RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,460

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.54	0.51	0.71	0.91	0.96	0.81	0.61	0.57	0.51	0.61	1.13	0.60	0.71	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97.56	ND	97.56	
BOD5														
INFLUENT (MG/L)	62.0	50.0	55.0	17.0	38.0	23.0	51.0	42.0	68.0	56.0	42.0	110.0	51.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	7.5	ND	ND	ND	ND	ND	8.0	ND	7.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	7.20	ND	ND	ND	ND	ND	9.04	ND	5.54	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	56.0	47.0	71.0	40.0	70.0	32.0	94.0	81.0	54.0	45.0	43.0	84.0	59.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	13.0	ND	ND	ND	ND	ND	39.5	ND	26.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	12.48	ND	ND	ND	ND	ND	44.63	ND	18.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	4.4	5.6	1.9	3.1	2.6	4.4	4.3	4.9	4.5	2.7	5.1	4.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	0.9	ND	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	2.68	ND	ND	ND	ND	ND	1.01	ND	1.35	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED

START DATE _____ END DATE _____
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: COBDEN
: COBDEN WPCP
: 120000596
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS

:
:
: 0.68 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKRAT RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,035

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.54	0.47	0.76	0.86	0.95	0.72	0.54	0.51	0.65	0.71	0.88	0.58	0.68	
BOD5														
INFLUENT (MG/L)	46.0	68.0	86.0	38.0	24.0	48.0	82.0	54.0	52.0	14.0	20.0	50.0	50.2	
EFFLUENT (MG/L)	7.0	2.0	6.0	2.0	6.0	6.0	2.0	2.0	2.0	2.0	2.0	2.0	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.78	0.94	4.56	1.72	5.70	4.32	1.08	1.02	1.30	1.42	1.76	1.16	2.31	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	73.0	126.0	34.0	73.0	77.0	111.0	79.0	79.0	64.0	63.0	85.0	80.0	
EFFLUENT (MG/L)	7.3	4.8	16.0	6.2	4.4	5.3	4.9	5.5	7.2	7.0	5.4	7.8	6.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.94	2.25	12.16	5.33	4.18	3.81	2.64	2.80	4.68	4.97	4.75	4.52	4.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	4.6	4.5	3.7	3.4	3.4	4.1	4.9	4.0	3.4	3.0	3.7	4.0	
EFFLUENT (MG/L)	0.5	0.9	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6	0.7	0.8	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.27	0.42	0.60	0.60	0.66	0.50	0.43	0.30	0.45	0.42	0.61	0.46	0.48	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY	: CORNWALL	REGION	: SOUTHEAST
PLANT	: CORNWALL WPCP	DISTRICT	: STORMONT, DUNDAS AND GLENGARRY
WORKS NUMBER	: 110000132	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: PRIMARY	WATERCOURSE	: ST. LAWRENCE RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ST. LAWRENCE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 54.55 (1000 M3)	POPULATION SERVED	: 46,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	39.98	37.27	52.48	59.36	54.29	58.54	53.76	55.00	47.00	47.00	55.77	32.73	49.43	
BOD5														
INFLUENT (MG/L)	70.0	68.0	98.0	58.0	91.0	54.0	39.0	32.0	56.0	78.0	61.0	68.0	64.4	
EFFLUENT (MG/L)	40.0	32.0	52.4	24.0	38.0	24.0	18.0	9.0	27.0	36.0	20.5	24.0	28.7	
CONCENTRATION LIMIT (MG/L)													90.0	
LOADING (KG/D)	1599.20	1192.64	2749.95	1424.64	2063.02	1404.96	967.68	495.00	1269.00	1692.00	1143.28	785.52	1418.64	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	113.0	130.0	105.0	110.0	130.0	97.0	99.0	106.0	116.0	143.0	108.0	92.0	112.4	
EFFLUENT (MG/L)	21.0	19.0	23.0	18.0	19.0	16.0	16.0	13.0	16.0	15.0	15.4	18.0	17.5	
CONCENTRATION LIMIT (MG/L)													60.0	
LOADING (KG/D)	839.58	708.13	1207.04	1068.48	1031.51	936.64	860.16	715.00	752.00	705.00	858.85	589.14	865.03	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.7	2.8	2.8	2.5	3.5	3.0	2.9	3.1	3.7	3.5	2.9	3.3	3.1	
EFFLUENT (MG/L)	0.9	0.9	0.9	0.9	ND	0.7	0.8	0.8	0.9	0.8	0.7	1.0	0.8	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	35.98	33.54	47.23	53.42	ND	40.97	43.00	44.00	42.30	37.60	39.03	32.73	39.54	
LOADING LIMIT (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			
PARAM	CRITERIA	LOADING	COMPLIES WITH
BOD	90.0 MG/L	NA	CONC
SS	60.0 MG/L	NA	LOADING
TP	1.0 MG/L	NA	YES
			YES
			YES
			YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: CORNWALL	REGION	: SOUTHEAST
PLANT	: CORNWALL WPCP	DISTRICT	: STORMONT, DUNDAS AND GLENGARRY
WORKS NUMBER	: 110000132	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: PRIMARY	WATERCOURSE	: ST. LAWRENCE RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ST. LAWRENCE
DESIGN CAPACITY	: 54.55 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 46,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	39.98	37.27	52.48	59.36	54.29	58.54	53.76	55.00	47.00	47.00	55.77	32.73	49.43	
BOD5														
INFLUENT (MG/L)	70.0	68.0	98.0	58.0	91.0	54.0	39.0	32.0	56.0	78.0	61.0	68.0	64.4	
EFFLUENT (MG/L)	40.0	32.0	52.4	24.0	38.0	24.0	18.0	9.0	27.0	36.0	20.5	24.0	26.7	
LOADING (KG/D)	1599.20	1192.64	2749.95	1424.64	2063.02	1404.96	967.68	495.00	1269.00	1692.00	1143.28	785.52	1418.64	
PERCENT REMOVAL	43	53	47	59	58	56	54	72	52	54	66	65	55	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	113.0	130.0	105.0	110.0	130.0	97.0	99.0	106.0	116.0	143.0	108.0	92.0	112.4	
EFFLUENT (MG/L)	21.0	19.0	23.0	18.0	19.0	16.0	16.0	13.0	16.0	15.0	15.4	18.0	17.5	
LOADING (KG/D)	839.58	708.13	1207.04	1068.48	1031.51	936.64	860.16	715.00	752.00	705.00	858.85	589.14	665.03	
PERCENT REMOVAL	81	85	78	84	85	84	84	88	86	90	86	80	84	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.7	2.8	2.8	2.5	3.5	3.0	2.9	3.1	3.7	3.5	2.9	3.3	3.1	
EFFLUENT (MG/L)	0.9	0.9	0.9	0.9	ND	0.7	0.8	0.8	0.9	0.8	0.7	1.0	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	35.98	33.54	47.23	53.42	ND	40.97	43.00	44.00	42.30	37.60	39.03	32.73	39.54	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY	
PARAM CRITERIA	COMPLIES WITH CONC
BOD 50%	YES
SS 70%	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CORNWALL
PLANT : LONG SAULT WPCP
WORKS NUMBER : 120000131
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,300

DESIGN CAPACITY : 1.36 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.75	0.75	0.90	1.25	1.51	1.43	1.12	1.45	1.04	1.69	2.26	1.37	1.29	
BOD5														
INFLUENT (MG/L)	ND	16.0	102.0	ND	16.0	ND	18.0	14.0	20.0	40.0	49.0	150.0	47.2	
EFFLUENT (MG/L)	ND	14.0	2.0	ND	16.0	2.0	2.0	4.0	4.0	4.0	15.0	4.0	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	10.50	1.80	ND	24.16	2.86	2.24	5.80	4.16	6.76	33.90	5.48	8.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	13.0	149.0	ND	26.0	ND	19.0	12.0	27.0	27.0	27.0	136.0	48.4	
EFFLUENT (MG/L)	ND	14.0	11.0	ND	21.0	6.0	4.0	3.0	6.0	11.6	38.0	6.0	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	10.50	9.90	ND	31.71	8.58	4.48	4.35	6.24	19.60	85.88	8.22	15.61	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	1.3	6.4	ND	2.1	ND	3.4	2.7	3.3	2.0	1.6	6.2	3.2	
EFFLUENT (MG/L)	ND	3.5	4.1	ND	2.9	2.5	3.7	3.7	4.7	2.7	1.5	2.8	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	2.62	3.69	ND	4.37	3.57	4.14	5.36	4.88	4.56	3.39	3.83	4.13	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
W - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES

INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT

START DATE END DATE ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DEEP RIVER
 PLANT : DEEP RIVER WPCP
 WORKS NUMBER : 120000612
 TREATMENT : PRIMARY
 :
 :
 DESIGN CAPACITY : 2.18 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : OTTAWA RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,230

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.31	1.68	1.92	2.09	1.64	1.71	1.71	1.62	1.46	1.53	1.65	1.42	1.73	
BOD5														
INFLUENT (MG/L)	155.0	110.0	84.0	230.0	110.0	80.0	64.0	130.0	86.0	80.0	98.0	135.0	113.5	
EFFLUENT (MG/L)	60.0	96.0	66.0	96.0	44.0	36.0	49.0	52.0	60.0	56.0	50.0	48.0	59.4	
LOADING (KG/D)	138.60	161.28	126.72	200.64	72.16	61.56	83.79	84.24	87.60	85.68	82.50	68.16	102.76	
PERCENT REMOVAL	61	13	21	58	60	55	23	60	30	30	49	64	48	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	115.0	128.0	98.0	160.0	124.0	80.0	114.0	150.0	76.0	67.0	103.0	100.0	109.6	
EFFLUENT (MG/L)	48.0	94.0	65.0	154.0	50.0	37.0	73.0	66.0	34.0	69.6	42.0	28.0	63.4	
LOADING (KG/D)	110.88	157.92	124.80	321.86	82.00	63.27	124.83	106.92	49.64	106.48	69.30	39.76	109.68	
PERCENT REMOVAL	58	27	34	04	60	54	36	56	55	ND	59	72	42*	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	60.9	10.0	5.3	6.9	9.3	7.0	8.7	8.6	5.5	5.0	5.6	10.8	12.0	
EFFLUENT (MG/L)	5.0	0.9	5.8	5.1	4.5	3.8	4.1	5.4	4.9	5.0	5.0	3.9	4.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.55	1.51	11.13	10.65	7.38	6.49	7.01	8.74	7.15	7.65	8.25	5.53	7.79	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	30% WITH CONC	YES
BOD	30%	YES	
SS	50%	NO	
TP	NA	NA	

REMEDIAL MEASURES

START DATE END DATE
 ANTICIPATED COMPLIANCE

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: DELORO	REGION	: SOUTHEAST
PLANT	: DELORO WPCP	DISTRICT	: HASTINGS
WORKS NUMBER	: 120000970	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: COMMUNAL SEPTIC TANK	WATERCOURSE	: MOIRA RIVER
	:	MINOR BASIN	: ONTARIO
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 1.74 (1000 M3)	POPULATION SERVED	: 157

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	101.0	91.0	94.0	45.0	29.0	34.0	110.0	144.0	120.0	232.0	41.0	36.0	89.8	
EFFLUENT (MG/L)	1.8	3.0	2.0	2.0	1.4	2.7	1.8	2.0	1.7	1.5	1.4	1.7	1.9	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PERCENT REMOVAL	98	97	98	96	95	92	98	99	99	99	97	95	98	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	169.0	115.0	215.0	78.0	53.0	36.0	176.0	118.0	120.0	171.0	50.0	67.0	114.0	
EFFLUENT (MG/L)	2.8	3.5	3.8	2.8	3.0	3.0	3.8	4.4	5.1	3.0	3.2	4.0	3.5	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PERCENT REMOVAL	98	97	98	96	94	92	98	96	96	98	94	94	97	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	3.5	4.4	2.1	1.2	2.1	4.0	5.2	4.9	5.4	2.2	1.5	3.4	
EFFLUENT (MG/L)	1.9	1.8	1.8	1.2	1.2	1.2	1.4	1.6	1.7	1.7	1.3	1.3	1.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30%	YES	
SS	50%	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: DESERONTO
: DESERONTO WPCP
: 110000980
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BAY OF QUINTE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,732

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.15	1.04	1.37	1.56	1.46	1.30	1.41	1.05	1.20	1.30	1.78	1.33	1.33	
BOD5														
INFLUENT (MG/L)	79.0	100.0	65.0	77.0	74.0	62.0	95.0	ND	71.0	ND	51.0	118.0	79.2	
EFFLUENT (MG/L)	5.8	3.5	7.5	2.5	6.8	1.8	3.3	2.2	2.6	3.3	4.0	9.0	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.67	3.64	10.27	3.90	9.92	2.34	4.65	2.31	3.12	4.29	7.12	11.97	5.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	79.0	105.0	106.0	102.0	101.0	124.0	142.0	ND	122.0	ND	77.0	115.0	107.3	
EFFLUENT (MG/L)	15.0	11.0	13.5	5.3	14.6	7.1	8.2	3.6	7.6	11.5	19.6	17.3	11.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.25	11.44	18.49	8.26	21.31	9.23	11.56	3.78	9.12	14.95	34.88	23.00	14.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.8	3.6	4.1	3.7	4.0	5.9	ND	4.4	ND	4.0	5.7	4.5	
EFFLUENT (MG/L)	0.7	0.5	0.7	0.4	0.6	0.3	0.4	0.5	0.5	0.4	0.8	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.80	0.52	0.95	0.62	0.87	0.39	0.56	0.52	0.60	0.52	1.42	0.79	0.67	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: EAST HAWKESBURY	REGION	: SOUTHEAST
PLANT	: CHUTE A BLONDEAU WPCP IN OP. 1987	DISTRICT	: PRESCOTT AND RUSSELL
WORKS NUMBER	: 110003399	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: OTTAWA RIVER
	:	MINOR BASIN	: OTTAWA RIVER
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.10 (1000 M3)	POPULATION SERVED	: 165

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.03	0.03	0.06	0.07	0.08	0.11	0.06	0.04	0.03	0.04	0.07	0.05	0.06	
BOD5														
INFLUENT (MG/L)	ND	660.0	265.0	150.0	88.0	92.0	101.0	88.0	129.0	174.0	131.0	104.0	160.2	
EFFLUENT (MG/L)	ND	2.0	5.0	2.0	4.2	11.8	5.0	4.0	3.3	3.8	2.3	4.9	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	0.06	0.30	0.14	0.33	1.29	0.30	0.16	0.09	0.15	0.16	0.24	0.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	214.0	244.0	186.0	112.0	211.0	143.0	109.0	97.0	155.0	162.0	83.0	67.0	148.6	
EFFLUENT (MG/L)	21.0	25.8	21.0	13.9	12.6	18.5	12.3	10.0	11.6	13.0	13.1	5.2	14.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.63	0.77	1.26	0.97	1.00	2.03	0.73	0.40	0.34	0.52	0.91	0.26	0.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	18.9	11.1	9.6	9.3	6.5	15.7	7.4	5.1	8.0	3.1	7.3	9.2	
EFFLUENT (MG/L)	6.8	8.6	9.2	2.2	2.0	5.0	4.7	4.4	5.1	5.7	3.4	3.3	5.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.20	0.25	0.55	0.15	0.16	0.55	0.28	0.17	0.15	0.22	0.23	0.16	0.30	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: EGANVILLE	REGION	: SOUTHEAST
PLANT	: EGANVILLE WPCP	DISTRICT	: RENFREW
WORKS NUMBER	: 110000141	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: BONNECHERE RIVER
		MAJOR BASIN	: OTTAWA RIVER
DESIGN CAPACITY	: 0.76 (1000 M3)	POPULATION SERVED	: 1,219

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.48	0.47	0.54	0.55	0.67	0.61	0.54	0.46	0.48	0.50	0.52	0.48	0.53	
BOD5														
INFLUENT (MG/L)	183.0	144.0	145.0	141.0	100.0	107.0	117.0	80.0	116.0	156.0	171.0	220.0	140.0	
EFFLUENT (MG/L)	5.0	5.5	4.3	5.0	3.0	2.5	2.0	3.0	3.5	2.8	3.5	3.3	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.40	2.58	2.32	2.75	2.01	1.52	1.08	1.38	1.68	1.40	1.82	1.58	1.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	163.0	114.0	137.0	147.0	115.0	137.0	107.0	80.0	96.0	137.0	176.0	98.0	125.6	
EFFLUENT (MG/L)	8.0	9.7	16.0	11.0	12.6	16.7	8.0	11.2	10.9	7.3	16.0	14.0	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.84	4.55	8.64	6.05	8.44	10.18	4.32	5.15	5.23	3.65	8.32	6.72	6.25	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	6.1	5.6	5.4	4.8	5.8	4.8	4.7	5.1	4.4	3.6	4.0	5.0	
EFFLUENT (MG/L)	0.7	0.5	0.9	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.33	0.23	0.48	0.27	0.40	0.36	0.32	0.27	0.28	0.25	0.20	0.19	0.32	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

W - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	: ERNESTOWN
PLANT	: AMHERSTVIEW LAGOON
WORKS NUMBER	: 110000196
TREATMENT	: CONVENTIONAL LAGOON CONTINUOUS
	:
	:
DESIGN CAPACITY	: 2.39 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LENNOX & ADDINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : COLLINS CR. N.CHANNEL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,900

DESIGN CAPACITY	2.39 (1000 M3)
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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.16	2.06	2.65	2.86	2.50	2.38	1.76	1.90	1.97	2.30	3.37	2.45	2.36	
LAGOON DISCHARGE	66.95	57.71	82.13	85.81	77.45	71.42	54.57	58.97	59.18	71.33	101.13	76.08	71.89	
BOD ₅														
INFLUENT (MG/L)	134.0	89.0	145.0	84.0	85.0	73.0	93.0	98.0	88.0	99.0	61.0	113.0	96.8	
EFFLUENT (MG/L)	25.5	31.8	23.7	29.8	33.3	41.0	33.5	35.2	30.2	26.0	29.5	26.0	30.5*	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	55.08	65.50	62.80	85.22	83.25	97.58	58.96	66.88	59.49	59.80	99.41	63.70	71.98	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	168.0	81.0	287.0	65.0	87.0	71.0	90.0	82.0	63.0	101.0	62.0	74.0	102.6	
EFFLUENT (MG/L)	52.3	49.8	37.3	59.5	55.4	70.8	83.2	118.2	81.0	65.8	53.8	48.3	64.6*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	112.96	102.58	98.84	170.17	138.50	168.50	146.43	224.58	159.57	151.34	181.30	118.33	152.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	4.9	4.7	4.1	4.9	4.7	6.2	8.2	5.5	5.2	4.0	6.3	5.4	
EFFLUENT (MG/L)	6.3	6.6	6.1	4.9	0.1	4.6	3.0	3.0	2.9	3.8	3.6	4.2	4.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	13.60	13.59	16.16	14.01	0.25	10.94	5.28	5.70	5.71	8.74	12.13	10.29	9.68	

<u>PARAM</u>	<u>CRITERIA</u>	<u>COMPLIES</u> <u>WITH CONC</u>
BOD	30.0 MG/L	NO
SS	40.0 MG/L	NO
p	NA	NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

COLLECTION SYSTEM - PUMPING STATION MODIFICATION

	<u>START DATE</u>	<u>END DATE</u>	<u>ANTICIPATED COMPLIANCE</u>
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1990/03

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ERNESTOWN
 PLANT : ODESSA WPCP
 WORKS NUMBER : 110002041
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 0.90 (1000 M3)
 REGION : SOUTHEAST
 DISTRICT : LENNOX & ADDINGTON
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MILLHAVEN CREEK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 973

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.05	0.94	1.68	1.88	1.42	1.26	0.92	0.85	0.88	0.95	2.33	0.86	1.25	
BOD5														
INFLUENT (MG/L)	45.0	50.0	64.0	24.0	33.0	23.0	35.0	40.0	41.0	46.0	18.0	51.0	39.2	
EFFLUENT (MG/L)	4.2	11.5	11.3	6.6	4.0	2.3	2.0	2.0	1.8	2.0	2.2	4.7	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.41	10.81	18.98	12.78	5.68	2.89	1.84	1.70	1.58	1.90	5.12	4.04	5.75	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	46.0	48.0	86.0	41.0	44.0	35.0	54.0	50.0	38.0	72.0	41.0	52.0	50.6	
EFFLUENT (MG/L)	31.4	43.8	40.8	47.0	26.4	11.0	7.3	7.4	11.0	12.6	17.4	22.0	23.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	32.97	41.17	68.54	88.36	37.48	13.86	6.71	6.29	9.68	11.97	40.54	18.92	29.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	2.9	4.2	1.7	2.0	2.3	2.8	3.0	3.2	2.8	1.5	3.0	2.7	
EFFLUENT (MG/L)	1.3M	1.5M	1.6M	1.6M	0.9	0.4	0.4	0.4	0.6	0.4	0.7	0.6	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.36	1.41	2.68	3.00	1.27	0.50	0.36	0.34	0.52	0.38	1.63	0.51	1.13	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE END DATE COMPLIANCE
 ANTICIPATED
 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: FRANKFORD
: FRANKFORD WPCP
: 110000267
: CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,190

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.07	0.93	0.97	1.35	1.28	0.89	0.62	0.64	7.94	0.85	1.45	1.05	1.59	
BOD5														
INFLUENT (MG/L)	255.0	153.0	137.0	70.0	145.0	168.0	200.0	255.0	86.0	191.0	207.0	146.0	167.8	
EFFLUENT (MG/L)	15.8	14.3	8.5	12.3	16.4	13.0	11.0	19.9	8.3	8.2	10.0	11.0	12.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	16.90	13.29	8.24	16.60	20.99	11.57	6.82	12.73	65.90	6.97	14.50	11.55	19.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	81.0	112.0	135.0	63.0	113.0	120.0	121.0	153.0	126.0	185.0	98.0	104.0	117.6	
EFFLUENT (MG/L)	16.9	16.7	22.8	19.5	25.1	17.9	15.0	16.9	6.2	7.1	10.6	17.3	16.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.08	15.53	22.11	26.32	32.12	15.93	9.30	10.81	49.22	6.03	15.37	18.16	25.44	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	7.0	5.9	6.3	4.5	5.5	5.4	5.0	4.8	5.4	4.7	4.6	4.9	5.3	
EFFLUENT (MG/L)	0.6	0.4	0.3	0.5	0.4	0.6	0.7	0.6	0.3	0.4	0.5	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.64	0.37	0.29	0.67	0.51	0.53	0.43	0.38	2.38	0.34	0.72	0.63	0.80	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GANANOQUE
 PLANT : GANANOQUE LAGOON
 WORKS NUMBER : 110000285
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 3.27 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : LEEDS AND GRENVILLE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : STOCKING CR GANANOQUE R
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.21	4.80	5.39	5.44	5.22	4.71	3.82	4.25	3.80	3.95	5.27	3.51	4.61	
LAGOON DISCHARGE	161.40	135.10	167.10	319.31	290.78	ND	ND	46.71	114.03	122.36	158.22	108.78	162.38	
BOD5														
INFLUENT (MG/L)	64.0	49.0	100.0	40.0	52.0	52.0	73.0	98.0	87.0	114.0	53.0	57.0	69.9	
EFFLUENT (MG/L)	8.5	9.5	17.0	19.3	17.8	ND	ND	7.0	3.5	4.5	3.5	2.5	9.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	44.28	45.60	91.63	104.99	92.91	ND	ND	29.75	13.30	17.77	18.44	8.77	42.87	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	92.0	126.0	233.0	69.0	97.0	88.0	82.0	111.0	133.0	259.0	83.0	113.0	123.8	
EFFLUENT (MG/L)	31.5	24.5	36.0	22.7	40.1	ND	ND	11.0	3.1	6.3	8.8	4.5	18.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	164.11	117.60	194.04	123.48	209.32	ND	ND	46.75	11.78	24.88	46.37	15.79	87.13	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	4.2	4.7	2.5	2.4	3.7	4.3	5.5	3.8	6.2	3.5	3.8	4.0	
EFFLUENT (MG/L)	2.3	2.6	2.7	2.0	2.5	ND	ND	2.0	2.7	3.5	3.1	2.5	2.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.98	12.48	14.55	10.88	13.05	ND	ND	8.50	10.26	13.82	16.33	8.77	11.99	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES

COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
 COLLECTION SYSTEM - ILLEGAL CONNECTIONS BEING ELIMINATED
 FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED
 FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1991	1991
1988	1991	1991
1989	1995	1995
1989	1995	1995

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY	: GLOUCESTER	REGION	: SOUTHEAST
PLANT	: GREEN CREEK WPCP	DISTRICT	: OTTAWA-CARLETON, REG. MUN.
WORKS NUMBER	: 120000729	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: PRIMARY	WATERCOURSE	: OTTAWA RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: OTTAWA RIVER
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 363.68 (1000 M3)	POPULATION SERVED	: 450,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	422.90	410.90	489.60	514.10	520.80	485.10	450.90	448.20	434.50	427.30	471.50	450.00	460.48	
BOD5														
INFLUENT (MG/L)	116.0	121.0	98.0	100.0	90.0	116.4	96.0	76.0	109.0	122.0	98.0	120.0	105.2	
EFFLUENT (MG/L)	59.1	54.6	53.2	43.3	34.2	30.3	24.8	29.5	33.9	38.1	29.9	53.3	40.4*	
CONCENTRATION LIMIT (MG/L)													39.0	
LOADING (KG/D)	4993.39	2435.14	6046.72	2260.53	7811.36	4698.53	1182.32	3221.90	4729.55	6280.13	4097.85	3985.00	18603.39*	
LOADING LIMIT (KG/D)													217.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	144.0	148.0	141.0	151.0	127.0	142.2	148.0	108.0	137.0	140.0	150.0	167.0	141.9	
EFFLUENT (MG/L)	49.5	55.4	61.0	51.4	50.8	41.6	42.9	37.5	52.6	39.4	47.7	60.7	49.2*	
CONCENTRATION LIMIT (MG/L)													31.0	
LOADING (KG/D)	933.55	2763.86	9865.60	6424.74	6456.64	180.16	9343.61	6807.50	2854.70	6835.62	2490.55	7315.00	22655.62*	
LOADING LIMIT (KG/D)													169.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	3.9	3.6	3.3	3.3	3.7	4.0	3.5	4.9	4.5	3.8	4.1	3.9	
EFFLUENT (MG/L)	2.7*	2.2*	2.2*	2.0*	1.7*	1.4*	1.4*	1.4*	2.1*	1.8*	1.5*	2.4*	1.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1141.83	903.98	1077.12	1028.20	885.36	679.14	631.26	627.48	912.45	769.14	707.25	1080.00	874.91*	
LOADING LIMIT (KG/D)													5.45	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY			COMPLIES WITH	
PARAM CRITERIA	LOADING	CONC	LOADING	
BOD	39.0 MG/L	212.70 KG/D	NO	NO
SS	31.0 MG/L	169.00 KG/D	NO	NO
TP	1.0 MG/L	5.45 KG/D	NO	NO

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1990/03	1991

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: GLOUCESTER
: GREEN CREEK WPCP
: 120000729
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
: 363.68 (1000 M3)

REGION : SOUTHEAST
DISTRICT : OTTAWA-CARLETON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 450,000

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	422.90	410.90	489.60	514.10	520.80	485.10	450.90	448.20	434.50	427.30	471.50	450.00	460.48	
BOD5 INFLUENT (MG/L)	116.0	121.0	98.0	100.0	90.0	116.4	96.0	76.0	109.0	122.0	98.0	120.0	105.2	
EFFLUENT (MG/L)	59.1	54.6	53.2	43.3	34.2	30.3	24.8	29.5	33.9	38.1	29.9	53.3	40.4M	
LOADING (KG/D)	4993.39	2435.14	6046.72	2260.53	7811.36	4698.53	1182.32	3221.90	4729.55	6280.13	4097.85	3985.00	18603.39M	
PERCENT REMOVAL	49	55	46	57	62	74	74	61	69	69	69	56	62	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS INFLUENT (MG/L)	144.0	148.0	141.0	151.0	127.0	142.2	148.0	108.0	137.0	140.0	150.0	167.0	141.9	
EFFLUENT (MG/L)	49.5	55.4	61.0	51.4	50.8	41.6	42.9	37.5	52.6	39.4	47.7	60.7	49.2M	
LOADING (KG/D)	933.55	2763.86	9865.60	6424.74	6456.64	180.16	9343.61	6807.50	2854.70	6835.62	2490.55	7315.00	22655.62M	
PERCENT REMOVAL	66	63	57	66	60	71	71	65	62	72	68	64	65M	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.1	3.9	3.6	3.3	3.3	3.7	4.0	3.5	4.9	4.5	3.8	4.1	3.9	
EFFLUENT (MG/L)	2.7M	2.2M	2.2M	2.0M	1.7M	1.4M	1.4M	1.4M	2.1M	1.8M	1.5M	2.4M	1.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1141.83	903.98	1077.12	1028.20	885.36	679.14	631.26	627.48	912.45	769.14	707.25	1080.00	674.91M	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	YES
BOD	50%	YES	
SS	70%	NO	
TP	1.0 MG/L	NO	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE END DATE ANTICIPATED
COMPLIANCE

1988 1990/03 1991

REGION	:	SOUTHEAST
DISTRICT	:	OTTAWA-CARLETON, REG. MUN.
OPERATING AUTHORITY	:	MUNICIPAL
WATERCOURSE	:	NO DISC. TO SURFACE WATER
MINOR BASIN	:	OTTAWA RIVER
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,300

MUNICIPALITY	:	GOULBOURN
PLANT	:	MUNSTER LAGOON
WORKS NUMBER	:	120001522
TREATMENT	:	LAGOON AND SPRAY
	:	SEASONAL DISCHARGE
	:	
DESIGN CAPACITY	:	0.36 (1000 M3)

[illegible]

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 NH₃ - EXCEEDS EFFLUENT CRITERIA
 " - " INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

PARAM	CRITERIA	COMPLIES
BOD	30.0 MG/L	WITH CONC
SS	40.0 MG/L	NO DIRECT
TP	NA	NO DIRECT

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAGARTY & RICHARDS
 PLANT : KILLALOE STN. WPCP
 WORKS NUMBER : 110001532
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL -CONTINUOUS
 :
 DESIGN CAPACITY : 0.51 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BRUDENELL CREEK
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 670

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.14	0.19	0.40	0.28	0.32	0.19	0.19	0.17	0.21	0.27	0.22	0.23	
BOD5														
INFLUENT (MG/L)	218.0	218.0	203.0	153.0	130.0	49.0	73.0	73.0	200.0	ND	119.0	300.0	157.8	
EFFLUENT (MG/L)	3.0	13.5	2.0	2.0	2.0	1.0	3.0	3.0	2.1	3.0	1.5	2.0	3.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.51	1.89	0.38	0.80	0.56	0.32	0.57	0.57	0.35	0.63	0.40	0.44	0.74	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	223.0	291.0	267.0	212.0	193.0	143.0	164.0	164.0	249.0	ND	138.0	242.0	207.8	
EFFLUENT (MG/L)	8.2	7.8	7.0	8.2	7.2	8.0	7.5	7.5	7.9	9.4	7.8	6.3	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.39	1.09	1.33	3.28	2.01	2.56	1.42	1.42	1.34	1.97	2.10	1.38	1.77	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	7.6	7.5	8.1	7.1	6.1	4.7	6.1	6.1	7.4	ND	6.7	6.1	6.7	
EFFLUENT (MG/L)	1.0	1.0	0.9	0.6	0.6	0.5	0.7	0.7	0.8	0.6	0.8	0.6	0.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.17	0.14	0.17	0.24	0.16	0.16	0.13	0.13	0.13	0.12	0.21	0.13	0.16	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAWKESBURY
 PLANT : HAWKESBURY WPCP
 WORKS NUMBER : 110002283
 TREATMENT : MODIFIED ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 12.27 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : OTTAWA RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 9,680

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.38	6.07	8.14	9.95	8.46	9.24	7.51	8.00	7.01	7.63	11.26	5.35	7.92	
BOD5														
INFLUENT (MG/L)	ND	34.0	44.0	42.0	55.0	98.0	62.0	56.0	56.0	94.0	80.0	58.0	61.7	
EFFLUENT (MG/L)	ND	12.0	12.0	2.0	11.0	11.4	6.5	5.2	11.0	5.8	2.9	7.1	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	72.84	97.68	19.90	93.06	105.33	48.81	41.60	77.11	44.25	32.65	37.98	62.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	99.0	76.0	128.0	81.0	126.0	160.0	198.0	92.0	134.0	97.0	83.0	85.0	113.3	
EFFLUENT (MG/L)	15.0	25.8	50.8	19.3	15.0	11.1	19.0	20.8	14.1	14.2	17.3	9.7	19.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	95.70	156.60	413.51	192.03	126.90	102.56	142.69	166.40	98.84	108.34	194.79	51.89	152.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	3.2	3.1	2.7	3.0	4.2	3.4	3.3	3.9	3.8	2.7	3.4	3.5	
EFFLUENT (MG/L)	0.9	0.7	1.0	0.3	0.4	0.7	0.7	0.8	0.9	0.6	0.8	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	5.74	4.24	8.14	2.98	3.38	6.46	5.25	6.40	6.30	4.57	9.00	3.74	5.54	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY COMPLIES
 WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

[illegible]

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: : IROQUOIS
: : IROQUOIS WPCP
: : 120000159
: : PRIMARY
: : PHOSPHORUS REMOVAL-CONTINUOUS

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DESIGN CAPACITY

5.00 (1000 M3)

REGION	: SOUTHEAST
DISTRICT	: STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY	: MUNICIPAL
WATERCOURSE	: ST. LAWRENCE RIVER
MINOR BASIN	: ST. LAWRENCE
MAJOR BASIN	: GREAT LAKES
POPULATION SERVED	: 1,212

AVG. DAILY FLOW (1000 M3)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
BOD5		26.0	ND	40.0	24.0	36.0	32.0	ND	18.0	30.0	46.0	ND	66.0	35.8	
EFFLUENT (MG/L)		ND	ND	9.0	3.0	15.0	8.0	ND	5.0	19.0	19.0	ND	4.0	10.3	
LOADING (KG/D)		ND	ND	31.23	14.73	38.25	22.56	ND	14.85	57.19	56.81	ND	13.60	31.72	
PERCENT REMOVAL				78	88	58	75		72	37	59		94	71	
PERCENT REMOVAL LIMITS														50	
SUSPENDED SOLIDS		136.0	ND	99.0	53.0	57.0	54.0	ND	33.0	70.0	70.0	ND	113.0	76.1	
EFFLUENT (MG/L)		ND	ND	36.0	12.0	47.6	4.8	ND	42.0	30.0	30.0	ND	8.0	26.3	
LOADING (KG/D)		ND	ND	124.92	58.92	121.38	13.53	ND	124.74	90.30	89.70	ND	27.20	81.00	
PERCENT REMOVAL				64	77	16	91		ND	57	57		93	65	
PERCENT REMOVAL LIMITS														70	
TOTAL PHOSPHOROUS		3.7	ND	3.6	1.7	1.9	2.1	ND	1.8	2.5	2.5	ND	3.3	2.6	
EFFLUENT (MG/L)		ND	ND	0.6	0.1	0.2	0.3	ND	0.3	0.3	0.3	ND	0.1	0.3	
CONCENTRATION LIMIT (MG/L)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	
LOADING (KG/D)		ND	ND	2.08	0.49	0.51	0.84	ND	0.89	0.90	0.89	ND	0.34	0.92	

COMPLIES

PARAM	CRITERIA	COMPLIES
800	50%	INSUFFICIENT DATA
SS	70%	INSUFFICIENT DATA
IP	1.0 MG/L	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY
 TTP - ASSESSED MONTHLY
 N - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: KEMPTVILLE WPCP
: KEMPTVILLE
: 120000113
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS

(TERTIARY PROPOSED)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KEMPTVILLE CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,400

DESIGN CAPACITY : 2.27 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.86	1.61	1.78	2.65	3.17	2.35	1.83	1.84	1.68	2.03	2.86	2.62	2.19	
BOD5														
INFLUENT (MG/L)	60.0	78.0	110.0	40.0	42.0	36.0	36.0	104.0	70.0	46.0	64.0	40.0	60.5	
EFFLUENT (MG/L)	13.0	33.0	35.0	13.0	6.0	14.0	12.0	12.0	28.0	11.0	14.0	15.0	17.2	
LOADING (KG/D)	24.18	53.13	62.30	34.45	19.02	32.90	21.96	22.08	47.04	22.33	40.04	39.30	37.67	
PERCENT REMOVAL	78	58	68	68	86	61	67	88	60	76	78	63	72	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	45.0	67.0	140.0	39.0	66.0	44.0	32.0	142.0	68.0	119.0	58.0	80.0	75.0	
EFFLUENT (MG/L)	18.0	18.0	22.0	16.0	15.0	14.0	15.0	8.0	19.0	18.0	15.0	35.0	17.8	
LOADING (KG/D)	33.48	28.98	39.16	42.40	47.55	32.90	27.45	14.72	31.92	36.54	42.90	91.70	38.98	
PERCENT REMOVAL	60	73	84	59	77	68	53	94	72	85	74	56	76	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	5.0	5.2	3.2	2.5	4.9	3.5	5.6	5.2	5.6	6.4	3.8	4.5	
EFFLUENT (MG/L)	1.7*	1.9*	2.7*	1.3*	1.1*	1.4*	1.4*	1.3*	2.7*	2.4*	1.9*	1.8*	1.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.16	3.05	4.80	3.44	3.48	3.29	2.56	2.39	4.53	4.87	5.43	4.71	3.94	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
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OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

1989	1990/04	1995
1989	1990/01	1995
1989	1994	1995

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: KINGSTON
: KINGSTON WPCP
: 120001050
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHEAST
DISTRICT : FRONTENAC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 67,000

DESIGN CAPACITY : 61.37 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	54.33	52.51	63.45	67.99	60.76	66.90	52.76	53.61	52.34	57.57	75.09	50.64	59.00	
BOD5														
INFLUENT (MG/L)	101.0	94.0	113.0	68.0	68.0	81.0	67.0	66.0	88.0	94.0	64.0	79.0	81.9	
EFFLUENT (MG/L)	22.0	40.0	33.0	20.0	18.0	23.0	21.0	22.0	26.0	23.0	21.0	33.0	25.2	
LOADING (KG/D)	1195.26	2100.40	2093.85	1359.80	1093.68	1538.70	1107.96	1179.42	1360.84	1324.11	1576.89	1671.12	1486.80	
PERCENT REMOVAL	78	57	71	71	74	72	69	67	70	76	67	58	69	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	74.0	125.0	88.0	75.0	72.0	68.0	75.0	93.0	85.0	67.0	78.0	82.6	
EFFLUENT (MG/L)	17.0	28.0	24.0	20.0	21.0	19.0	13.0	15.0	20.0	20.0	19.0	18.0	19.5	
LOADING (KG/D)	923.61	1470.28	1522.80	1359.80	1275.96	1271.10	685.88	804.15	1046.80	1151.40	1426.71	911.52	1150.50	
PERCENT REMOVAL	81	62	81	77	72	74	81	80	78	76	72	77	76	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	4.3	4.7	3.5	2.9	3.0	3.8	3.8	4.2	4.3	3.0	3.2	3.8	
EFFLUENT (MG/L)	0.7	1.0	0.7	0.4	0.5	0.6	0.6	0.6	0.7	0.6	0.8	0.6	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	38.03	52.51	44.41	27.19	30.38	40.14	31.65	32.16	36.63	34.54	60.07	30.38	41.30	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: KINGSTON TWP
: KINGSTON WPCP
: 110000365
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 25.00 (1000 M3)

REGION : SOUTHEAST
DISTRICT : FRONTENAC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 28,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	16.22	15.64	18.67	21.60	20.99	22.16	17.53	17.83	19.96	20.61	26.31	16.62	19.51	
BOD5 INFLUENT (MG/L)	112.0	102.0	95.0	89.0	98.0	122.0	147.0	194.0	223.0	201.0	160.0	187.0	144.2	
EFFLUENT (MG/L)	9.0	7.5	6.7	3.9	6.3	5.6	4.9	9.2	8.2	11.6	8.7	20.0	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	145.98	117.30	125.08	84.24	132.23	124.09	85.89	164.03	163.67	239.07	228.89	332.40	165.84	
SUSPENDED SOLIDS INFLUENT (MG/L)	82.0	72.0	83.0	64.0	73.0	93.0	102.0	162.0	224.0	246.0	134.0	81.0	118.0	
EFFLUENT (MG/L)	6.0	6.4	5.6	5.2	5.1	8.2	4.7	6.1	3.8	4.9	5.0	4.8	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	97.32	100.09	104.55	112.32	107.04	181.71	82.39	108.76	75.84	100.98	131.55	79.77	107.31	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.6	4.5	4.2	3.7	6.2	4.4	5.3	6.1	5.2	6.6	3.4	6.2	5.0	
EFFLUENT (MG/L)	0.6	0.5	0.5	0.5	0.7	0.7	0.4	0.5	0.6	0.6	0.8	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	9.73	7.82	9.33	10.80	14.69	15.51	7.01	8.91	11.97	12.36	21.04	9.97	11.71	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: L'ORIGINEAL	REGION	: SOUTHEAST
PLANT	: L'ORIGINEAL WPCP	DISTRICT	: PRESCOTT AND RUSSELL
WORKS NUMBER	: 110001701	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: OTTAWA RIVER
		MINOR BASIN	: OTTAWA RIVER
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.95 (1000 M3)	POPULATION SERVED	: 1,523

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.59	0.54	0.80	0.93	0.80	0.80	0.65	0.73	0.68	0.81	1.16	0.65	0.76	
BOD5														
INFLUENT (MG/L)	ND	30.0	135.0	18.0	55.0	68.0	85.0	82.0	38.0	70.0	51.0	67.0	63.5	
EFFLUENT (MG/L)	ND	4.0	25.0	11.0	4.4	11.5	10.0	8.4	5.0	5.6	4.0	7.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	2.16	20.00	10.23	3.52	9.20	6.50	6.13	3.40	4.53	4.64	4.55	6.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	73.0	123.0	97.0	49.0	60.0	76.0	127.0	88.0	175.0	72.0	48.0	30.0	84.8	
EFFLUENT (MG/L)	12.0	13.4	23.0	11.4	15.2	20.0	30.2	25.2	21.6	13.2	13.4	10.5	17.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.08	7.23	18.40	10.60	12.16	16.00	19.63	18.39	14.68	10.69	15.54	6.82	13.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	4.2	5.0	2.8	3.2	1.8	4.1	3.9	3.7	2.9	1.8	2.3	3.3	
EFFLUENT (MG/L)	2.8	3.4	3.6	0.6	4.3	2.3	4.0	2.2	3.8	2.9	2.4	3.4	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.65	1.83	2.88	0.55	3.44	1.84	2.60	1.60	2.58	2.34	2.78	2.21	2.28	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LANCASTER REGION : SOUTHEAST
 PLANT : LANCASTER LAGOON DISTRICT : STORMONT, DUNDAS AND GLENGARRY
 WORKS NUMBER : 110001925 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : FINNEY CREEK
 : MINOR BASIN : ST. LAWRENCE
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 0.59 (1000 M3) POPULATION SERVED : 700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.35	0.34	0.44	0.61	0.52	0.45	0.29	0.28	0.27	0.31	0.48	0.42	0.40	
LAGOON DISCHARGE	ND	ND	ND	42.41	35.52	ND	ND	ND	ND	ND	ND	ND	38.87	
BOD5	ND	110.0	140.0	72.0	71.0	101.0	30.0	129.0	96.0	165.0	61.0	236.0	110.1	
INFLUENT (MG/L)	ND	ND	ND	ND	3.8	ND	ND	ND	ND	ND	3.5	ND	3.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	1.97	ND	ND	ND	ND	ND	1.68	ND	1.48	
LOADING (KG/D)														
SUSPENDED SOLIDS	185.0	184.0	147.0	119.0	145.0	163.0	69.0	154.0	164.0	189.0	53.0	231.0	150.3	
INFLUENT (MG/L)	ND	ND	ND	19.0	23.7	ND	ND	ND	ND	ND	11.9	ND	18.2	
EFFLUENT (MG/L)	ND	ND	ND	11.59	12.32	ND	ND	ND	ND	ND	5.71	ND	40.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.28	
LOADING (KG/D)														
TOTAL PHOSPHOROUS	4.5	7.3	7.5	4.2	5.2	5.2	4.5	4.2	7.5	6.2	3.4	8.1	5.7	
INFLUENT (MG/L)	ND	ND	ND	0.2	0.7	ND	ND	ND	ND	ND	2.3	ND	1.1	
EFFLUENT (MG/L)	ND	ND	ND	0.12	0.36	ND	ND	ND	ND	ND	1.10	ND	0.44	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP NA	NA

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	LEEDS & LANSDOWNE FRONT
PLANT	LANSDOWNE LAGOON
WORKS NUMBER	110001934
TREATMENT	LAGOON AND SPRAY
DESIGN CAPACITY	0.33 (1000 M3)

REGION	:	SOUTHEAST
DISTRICT	:	LEEDS AND GRENVILLE
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	NO DISC. TO SURFACE WATER
MINOR BASIN	:	ST. LAWRENCE
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	546

0.33 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.20 ND	0.18 ND	0.21 ND	0.29 ND	0.29 ND	0.25 ND	0.20 18.86	0.20 20.73	0.20 12.86	0.21 ND	0.25 ND	0.19 ND	0.22 17.48	
BOD5														
INFLUENT (MG/L)	85.0	102.0	60.0	81.0	57.0	36.0	42.0	80.0	62.0	59.0	46.0	80.0	65.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	7.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	1.40	ND	ND	ND	ND	1.54	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	119.0	66.0	47.0	91.0	50.0	35.0	37.0	42.0	31.0	53.0	39.0	35.0	53.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	11.0	ND	ND	ND	ND	11.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	2.20	ND	ND	ND	ND	2.42	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	6.6	4.8	5.2	5.4	4.3	4.5	5.3	5.1	4.7	3.8	4.7	5.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND	ND	ND	0.40	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

W - EXCEEDS EFFLUENT CRITERIA

EXCEEDS EFFICIENT CRITERIA SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

NOT AFFILIABLE

SUMMARY

COMPLIES

CONFLICTS
WITH CONC

	WITH CONC	DIRECT DISCHARGE
NO DIRECT DISCHARGE		

NO DIRECT DISCHARGE

NO DIRECT DISCHARGE
NO DIRECT DISCHARGE

NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MADOC
 PLANT : MADOC LAGOON
 WORKS NUMBER : 110001051
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DEER CREEK TO MOIRA LAKE
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 850

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.68 ND	0.74 ND	0.72 ND	1.02 ND	0.95 ND	1.06 ND	0.67 ND	0.69 ND	0.83 ND	0.65 ND	0.96 ND	0.70 ND	0.81	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	153.0 ND ND ND	111.0 ND ND ND	107.0 ND ND ND	94.0 7.0 7.14	93.0 8.7 8.26	89.0 ND ND	137.0 ND ND	125.0 ND ND	142.0 ND ND	106.0 ND ND	76.0 4.0 3.84	137.0 ND ND	114.2 6.6 25.0 5.35	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	153.0 ND ND ND	141.0 ND ND ND	157.0 ND ND ND	119.0 36.0 36.72	197.0 19.8 18.81	82.0 ND ND	169.0 ND ND	123.0 ND ND	142.0 ND ND	123.0 ND ND	97.0 11.3 10.84	173.0 ND ND	139.7 22.4 25.0 18.14	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	5.6 ND 1.0 ND	4.4 ND 1.0 ND	3.4 ND 1.0 ND	4.3 0.5 1.0 0.51	4.2 0.4 1.0 0.38	4.2 ND 1.0 ND	7.2 ND 1.0 ND	6.5 ND 1.0 ND	6.7 ND 1.0 ND	6.8 ND 1.0 ND	4.3 0.1 1.0 0.09	6.4 ND 1.0 ND	5.3 0.3 0.24	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MARMORA
: MARMORA WPCP
: 110001863
: EXTENDED AERATION
: PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY

: 0.86 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CROWE RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,067

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.78	0.74	0.76	0.82	0.76	0.99	0.59	0.52	0.68	0.72	1.14	0.71	0.77	
BOD5														
INFLUENT (MG/L)	157.0	125.0	92.0	87.0	79.0	130.0	99.0	125.0	134.0	115.0	67.0	84.0	107.8	
EFFLUENT (MG/L)	12.8	4.3	7.3	4.3	6.4	6.0	2.3	4.2	2.8	5.1	2.0	4.3	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.98	3.18	5.54	3.52	4.86	5.94	1.35	2.18	1.90	3.67	2.28	3.05	4.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	145.0	125.0	176.0	126.0	116.0	109.0	178.0	205.0	245.0	167.0	102.0	194.0	157.3	
EFFLUENT (MG/L)	16.6	7.5	18.3	18.0	10.0	12.7	14.0	9.8	12.9	10.6	15.4	13.6	13.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.94	5.55	13.90	14.76	7.60	12.57	8.26	5.09	8.77	7.63	17.55	9.65	10.24	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	3.0	3.2	3.2	3.3	3.2	4.6	5.4	4.5	4.2	3.0	3.4	3.7	
EFFLUENT (MG/L)	0.5	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.39	0.14	0.15	0.24	0.30	0.49	0.29	0.31	0.40	0.43	0.57	0.28	0.31	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

COMPLIES
WITH CONC
PARM CRITERIA
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP 1.0 MG/L YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MAXVILLE WASTE STAB POND (OP SEP 89)
: MAXVILLE : 110002719
: CONVENTIONAL LAGOON ANNUAL
: PHOSPHORUS REMOVAL - BATCH
: :
: 0.45 (1000 M3)
DESIGN CAPACITY :

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SCOTCH RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.32 ND	0.05 ND	0.10 ND	0.13 ND	0.15	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND		
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND		
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND		

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DISCHARGE
SS	NA	NO DISCHARGE
TP	NA	NO DISCHARGE

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
★ - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: MERRICKVILLE
: MERRICKVILLE WPCP
: 110001729
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 0.50 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RIDEAU RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 797

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.36	0.35	0.47	0.67	0.73	0.55	0.39	0.37	0.36	0.35	0.55	0.39	0.46	
BOD5														
INFLUENT (MG/L)	55.0	76.0	114.0	46.0	43.0	50.0	78.0	71.0	92.0	64.0	70.0	129.0	74.2	
EFFLUENT (MG/L)	4.0	6.4	27.3	34.0	16.0	4.0	3.5	2.3	1.7	4.0	2.2	2.8	9.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.52	2.24	12.63	22.78	11.68	2.20	1.36	0.85	0.61	1.40	1.21	1.09	4.14	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	84.0	88.0	225.0	59.0	53.0	58.0	140.0	86.0	92.0	56.0	83.0	149.0	97.9	
EFFLUENT (MG/L)	15.0	11.6	56.8	58.0	19.0	9.0	7.8	6.0	8.1	6.4	12.2	15.5	18.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.70	4.06	26.69	38.86	13.87	4.95	3.04	2.22	2.91	2.24	6.71	6.04	8.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	4.9	6.7	3.3	4.3	4.8	6.7	5.6	4.9	4.1	4.8	4.4	5.0	
EFFLUENT (MG/L)	0.6	0.4	1.9*	1.9*	0.8	0.4	26.9*	0.6	0.7	0.5	0.6	0.6	3.0	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.22	0.14	0.89	1.27	0.58	0.22	10.49	0.22	0.25	0.17	0.33	0.23	1.38	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	25.0 MG/L	WITH CONC
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE END DATE
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: MORRISBURG	REGION	: SOUTHEAST
PLANT	: MORRISBURG WPCP	DISTRICT	: STORMONT, DUNDAS AND GLENGARRY
WORKS NUMBER	: 120000168	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: PRIMARY	WATERCOURSE	: ST. LAWRENCE RIVER
	: CONVENTIONAL LAGOON CONTINUOUS	MINOR BASIN	: ST. LAWRENCE
DESIGN CAPACITY	: 2.27 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 2,350

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.74	2.64	2.67	3.29	3.27	3.31	2.81	2.93	2.48	2.71	3.32	2.67	2.90	
BOD5														
INFLUENT (MG/L)	16.0	22.0	98.0	10.0	300.0	190.0	14.0	24.0	44.0	60.0	ND	130.0	82.5	
EFFLUENT (MG/L)	21.0	26.0	29.0	17.0	11.0	20.0	10.0	11.0	23.0	18.0	25.0	18.0	19.1	
LOADING (KG/D)	57.54	68.64	77.43	55.93	35.97	66.20	28.10	32.23	57.04	48.78	83.00	48.06	55.39	
PERCENT REMOVAL	ND	ND	70	ND	96	89	29	54	48	70		86	77	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	5.0	19.0	78.0	25.0	261.0	117.0	12.0	27.0	25.0	33.0	ND	82.0	62.2	
EFFLUENT (MG/L)	21.0	13.0	24.0	12.0	40.0	20.0	14.0	40.0	90.0	65.2	78.0	30.0	37.3	
LOADING (KG/D)	57.54	34.32	64.08	39.48	130.80	66.20	39.34	117.20	223.20	176.69	258.96	80.10	108.17	
PERCENT REMOVAL	ND	32	69	52	85	83	ND	ND	ND	ND		63	40*	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.3	1.7	5.1	0.9	4.3	3.8	1.8	3.2	3.4	1.9	ND	3.7	2.8	
EFFLUENT (MG/L)	2.5	2.8	3.0	1.4	1.8	2.0	0.8	1.9	2.6	2.0	2.0	2.0	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	6.85	7.39	8.01	4.60	5.88	6.62	2.24	5.56	6.44	5.42	6.64	5.34	6.09	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

M - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 30% YES	
SS 50% NO	
TP NA	

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NAPANEE
: NAPANEE WPCP
: 120000106
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY

: 9.09 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LENNOX & ADDINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NAPANEE RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.68	4.29	5.61	6.93	6.19	6.47	5.27	6.15	5.78	5.90	10.05	5.56	6.07	
BOD5 INFLUENT (MG/L)	221.0	142.0	147.0	89.0	77.0	77.0	66.0	123.0	119.0	83.0	68.0	90.0	108.5	
EFFLUENT (MG/L)	13.3	17.8	17.9	9.3	8.7	6.7	6.0	10.0	2.4	3.1	4.5	3.6	8.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	62.24	76.36	100.41	64.44	53.85	43.34	31.62	61.50	13.87	18.29	45.22	21.12	52.20	
SUSPENDED SOLIDS INFLUENT (MG/L)	202.0	178.0	218.0	147.0	174.0	131.0	76.0	107.0	117.0	122.0	87.0	133.0	141.0	
EFFLUENT (MG/L)	13.0	23.8	20.4	16.4	10.7	14.0	12.5	15.0	11.1	13.5	10.6	10.0	14.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	60.84	102.10	114.44	113.65	66.23	90.58	65.87	92.25	64.15	79.65	106.53	55.60	86.80	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	9.4	8.0	9.2	7.6	7.2	7.6	5.4	10.4	7.2	8.7	4.9	6.9	7.7	
EFFLUENT (MG/L)	0.6	1.0	1.2*	0.9	0.7	0.8	1.0	1.6*	1.1*	0.8	0.7	0.8	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.80	4.29	6.73	6.23	4.33	5.17	5.27	9.84	6.35	4.72	7.03	4.44	5.46	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		
PARM	CRITERIA	COMPLIES
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED

START DATE
END DATE
COMPLIANCE

1989/12 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NEPEAN
 PLANT : WATTS CREEK WPCP
 WORKS NUMBER : 120000701
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 29.54 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : OTTAWA-CARLETON, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WATTS CREEK
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 52,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	25.10	24.00	31.60	34.70	33.50	28.70	24.60	24.00	23.60	25.20	31.30	25.50	27.65	
BOD5														
INFLUENT (MG/L)	129.0	121.0	107.0	103.0	104.0	110.0	82.0	90.0	114.0	129.0	78.0	106.0	106.1	
EFFLUENT (MG/L)	9.0	15.0	17.0	13.0	17.0	11.0	9.0	11.0	6.0	7.0	6.0	3.0	10.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	225.90	360.00	537.20	451.10	569.50	315.70	221.40	264.00	141.60	176.40	187.80	76.50	284.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	148.0	137.0	118.0	159.0	136.0	142.0	100.0	120.0	133.0	138.0	111.0	164.0	133.8	
EFFLUENT (MG/L)	11.0	12.0	12.0	13.0	12.0	6.0	10.0	8.0	8.0	11.0	9.0	12.0	10.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	276.10	288.00	379.20	451.10	402.00	229.60	246.00	192.00	188.80	277.20	281.70	306.00	290.33	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	5.3	4.3	4.3	4.2	4.2	4.0	4.9	4.8	5.0	3.6	5.1	4.6	
EFFLUENT (MG/L)	1.0	0.9	0.9	1.0	1.0	0.9	1.0	0.9	1.1*	0.9	1.0	0.9	1.0	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	25.10	21.60	28.44	34.70	33.50	25.83	24.60	21.60	25.96	22.68	31.30	22.95	27.65	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: OSNABRUCK	REGION	: SOUTHEAST
PLANT	: INGLESIDE WPCP	DISTRICT	: STORMONT, DUNDAS AND GLENGARRY
WORKS NUMBER	: 120000140	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: PRIMARY	WATERCOURSE	: ST. LAWRENCE RIVER
		MINOR BASIN	: ST. LAWRENCE
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 1.57 (1000 M3)	POPULATION SERVED	: 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.76	0.66	1.06	1.49	1.46	1.62	0.86	0.96	0.80	1.10	1.90	0.70	1.11	
BOD5														
INFLUENT (MG/L)	96.0	104.0	295.0	26.0	165.0	64.0	90.0	ND	110.0	34.0	15.0	105.0	100.4	
EFFLUENT (MG/L)	57.0	52.0	86.0	9.0	58.0	19.0	45.0	ND	7.0	31.0	17.0	54.0	39.5	
LOADING (KG/D)	43.32	34.32	91.16	13.41	84.68	30.78	36.70	ND	5.60	34.10	32.30	37.80	43.85	
PERCENT REMOVAL	41	50	71	65	65	70	50		94	09	ND	49	61	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	84.0	98.0	6,220.0	55.0	280.0	223.0	154.0	ND	180.0	48.0	16.0	111.0	679.0	
EFFLUENT (MG/L)	50.0	47.0	168.0	25.0	180.0	50.0	42.0	ND	50.0	29.0	15.0	38.0	63.1	
LOADING (KG/D)	38.00	31.02	178.08	37.25	262.80	81.00	36.12	ND	40.00	31.90	28.50	26.60	70.04	
PERCENT REMOVAL	40	52	97	55	36	78	73		72	40	06	66	91	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.6	9.5	2.3	5.3	4.5	5.2	ND	5.1	6.4	1.5	5.5	5.1	
EFFLUENT (MG/L)	4.1	3.8	6.4	1.7	4.2	2.1	4.0	ND	4.6	2.7	1.1	ND	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.11	2.50	6.78	2.53	6.13	3.40	3.44	ND	3.68	2.97	2.09	ND	3.89	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

W - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30%	YES	
SS	50%	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PEMBROKE REGION : SOUTHEAST
 PLANT : PEMBROKE WPCP DISTRICT : RENFREW
 WORKS NUMBER : 120000630 OPERATING AUTHORITY : MUNICIPAL
 TREATMENT : PRIMARY WATERCOURSE : OTTAWA RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : OTTAWA RIVER
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 10.18 (1000 M3) POPULATION SERVED : 17,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	12.58	12.45	13.10	13.04	12.93	12.70	12.57	12.59	12.54	12.44	12.52	12.61	12.67	
BOD5														
INFLUENT (MG/L)	100.0	96.0	114.0	114.0	68.0	73.0	76.0	56.0	63.0	120.0	118.0	122.0	93.3	
EFFLUENT (MG/L)	24.5	15.0	18.8	25.0	12.5	15.0	13.8	11.8	13.0	12.0	15.5	33.0	17.5	
LOADING (KG/D)	308.21	186.75	246.28	326.00	161.62	190.50	173.46	148.56	163.02	149.28	194.06	416.13	221.73	
PERCENT REMOVAL	76	84	84	78	82	79	82	79	79	90	87	73	81	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	89.0	92.0	125.0	107.0	112.0	125.0	106.0	72.0	84.0	93.0	121.0	98.0	102.0	
EFFLUENT (MG/L)	11.7	11.9	16.8	13.3	14.3	16.7	13.8	9.5	11.0	12.0	15.9	13.1	13.3	
LOADING (KG/D)	147.18	148.15	220.08	173.43	184.89	212.09	173.46	119.60	137.94	149.28	199.06	165.19	168.51	
PERCENT REMOVAL	87	87	87	88	87	87	87	87	87	87	87	87	87	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	4.3	4.4	2.9	ND	3.6	3.3	3.2	3.3	3.7	3.3	4.4	3.7	
EFFLUENT (MG/L)	0.7	0.6	0.6	0.6	0.1	0.7	0.8	0.6	0.7	0.7	0.7	0.9	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	8.80	7.47	7.86	7.82	1.29	8.89	10.05	7.55	8.77	8.70	8.76	11.34	7.60	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	YES
BOD	50%	YES	YES
SS	70%	YES	YES
TP	1.0 MG/L	YES	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PERTH LAGOON
 PLANT : PERTH LAGOON
 WORKS NUMBER : 120000881
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 5.91 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : LANARK
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : TAY RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,648

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.76	5.32	5.20	6.61	6.31	5.43	5.05	3.62	4.14	4.15	4.77	4.16	5.04	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	335.0	108.0	88.0	205.0	255.0	46.0	155.0	130.0	175.0	96.0	48.0	600.0	186.8	
EFFLUENT (MG/L)	9.0	55.0	53.0	23.0	11.0	9.0	6.0	4.0	4.0	4.0	6.0	18.0	16.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	51.84	292.60	275.60	152.03	69.41	48.87	30.30	14.48	16.56	16.60	28.62	74.88	84.67	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	122.0	135.0	61.0	52.0	67.0	146.0	286.0	78.0	72.0	82.0	250.0	120.2	
EFFLUENT (MG/L)	14.0	24.0	30.0	11.0	17.0	12.0	9.0	3.0	2.8	14.0	10.0	14.0	13.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	80.64	127.68	156.00	72.71	107.27	65.16	45.45	10.86	11.59	58.10	47.70	58.24	67.54	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.8	2.6	4.5	2.6	3.2	2.0	4.0	4.5	2.8	3.7	3.0	15.8	4.2	
EFFLUENT (MG/L)	0.6	0.5	0.6	0.4	0.2	0.3	0.5	0.5	0.5	0.4	0.8	0.8	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.45	2.65	3.12	2.64	1.26	1.62	2.52	1.81	2.07	1.66	3.61	3.32	2.52	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PETAWAWA REGION : SOUTHEAST
 PLANT : PETAWAWA WPCP DISTRICT : RENFREW
 WORKS NUMBER : 120000587 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : PRIMARY WATERCOURSE : OTTAWA RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : OTTAWA RIVER
 : : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 4.54 (1000 M3) POPULATION SERVED : 9,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.97	4.54	5.10	5.04	4.50	4.71	4.69	4.82	5.15	5.42	4.45	3.73	4.68	
BOD5														
INFLUENT (MG/L)	123.0	168.0	140.0	140.0	119.0	102.0	118.0	114.0	162.0	132.0	115.0	192.0	135.4	
EFFLUENT (MG/L)	29.0	56.2	43.6	42.8	29.6	18.0	12.7	9.9	28.8	34.6	15.6	32.7	29.5	
LOADING (KG/D)	115.13	255.14	222.36	215.71	133.20	84.78	59.56	47.71	148.32	187.53	69.42	121.97	138.06	
PERCENT REMOVAL	76	67	69	69	75	82	89	91	82	74	86	83	78	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	94.0	148.0	123.0	113.0	120.0	100.0	123.0	113.0	178.0	132.0	151.0	142.0	128.1	
EFFLUENT (MG/L)	13.7	14.3	34.0	16.5	16.7	11.9	15.2	9.0	12.7	31.0	20.7	12.7	17.4	
LOADING (KG/D)	54.38	64.92	173.40	83.16	75.15	56.04	71.28	43.38	65.40	168.02	92.11	47.37	81.43	
PERCENT REMOVAL	85	90	72	85	86	88	88	92	93	77	86	91	86	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.7	4.9	5.3	4.7	5.4	5.6	5.6	6.9	6.2	7.4	6.3	5.7	
EFFLUENT (MG/L)	0.7	0.4	0.4	0.7	0.5	0.5	0.6	0.4	0.6	1.2*	0.6	0.3	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	
LOADING (KG/D)	2.77	1.81	2.04	3.52	2.25	2.35	2.81	1.92	3.09	6.50	2.67	1.11	2.81	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM CRITERIA	WITH CONC	
BOD 50%	YES	
SS 70%	YES	
TP 1.0 MG/L	NO	

REMEDIAL MEASURES

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

START DATE END DATE ANTICIPATED COMPLIANCE
 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PICTON
PLANT : PICTON WPCP
WORKS NUMBER : 120000667
TREATMENT : CONTACT STABILIZATION

REGION : SOUTHEAST
DISTRICT : PRINCE EDWARD
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PICTON BAY
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,500

DESIGN CAPACITY : 4.54 (1000 M3)
PHOSPHORUS REMOVAL-CONTINUOUS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.84	2.62	3.29	3.81	6.64	3.00	2.52	2.40	2.13	2.10	2.97	2.36	3.06	
BOD5														
INFLUENT (MG/L)	72.0	82.0	100.0	45.0	49.0	47.0	70.0	37.0	69.0	57.0	76.0	31.0	61.3	
EFFLUENT (MG/L)	11.5	14.5	17.5	11.5	8.5	9.0	7.5	7.0	8.0	9.7	7.0	18.0	10.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	32.66	37.99	57.57	43.81	56.44	27.00	18.90	16.80	17.04	20.37	20.79	42.48	33.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.0	99.0	156.0	52.0	49.0	110.0	45.0	38.0	73.0	48.0	73.0	25.0	69.4	
EFFLUENT (MG/L)	11.5	15.0	24.0	14.0	7.0	5.0	4.0	3.5	8.9	14.3	16.5	17.0	11.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	32.66	39.30	78.96	53.34	46.48	15.00	10.08	8.40	18.95	30.03	49.00	40.12	35.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	5.2	4.4	2.8	2.8	4.1	3.5	3.5	4.7	4.3	4.9	2.1	3.8	
EFFLUENT (MG/L)	0.5	0.6	0.9	0.4	0.2	0.3	0.4	0.5	0.4	0.4	0.7	0.7	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.42	1.57	2.96	1.52	1.32	0.90	1.00	1.20	0.85	0.84	2.07	1.65	1.53	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

REGION : SOUTHEAST
 DISTRICT : FRONTENAC
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CATARAQUI RIVER
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 108

MUNICIPALITY : PITTSBURGH
 PLANT : CANA WPCP
 WORKS NUMBER : 110001505
 TREATMENT : EXTENDED AERATION
 DESIGN CAPACITY : 0.09 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.04	0.04	0.05	0.07	0.07	0.06	0.02	0.02	0.01	0.02	0.07	0.04	0.04	
BOD5														
INFLUENT (MG/L)	106.0	88.0	92.0	54.0	67.0	96.0	118.0	173.0	199.0	154.0	76.0	105.0	110.7	
EFFLUENT (MG/L)	4.9	3.6	10.4	5.0	3.6	4.5	3.6	4.3	4.3	5.9	6.0	4.2	5.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.19	0.14	0.52	0.35	0.25	0.27	0.07	0.06	0.04	0.11	0.42	0.16	0.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	89.0	79.0	94.0	39.0	99.0	81.0	123.0	120.0	138.0	99.0	72.0	72.0	92.1	
EFFLUENT (MG/L)	22.8	17.0	32.2	12.6	17.5	15.7	10.4	13.5	15.8	16.0	25.8	24.6	18.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.91	0.68	1.61	0.88	1.22	0.94	0.20	0.27	0.15	0.32	1.80	0.98	0.75	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	5.7	6.2	2.3	3.7	5.6	5.9	6.9	8.4	6.3	2.8	4.9	5.4	
EFFLUENT (MG/L)	2.8	2.7	3.4	1.4	2.3	2.9	2.6	4.4	4.4	4.0	3.9	2.9	3.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.11	0.10	0.17	0.09	0.16	0.17	0.05	0.08	0.04	0.08	0.27	0.11	0.12	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH	CONC
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT	DESIGN CAPACITY
PLANTAGENET	LAGOON	110001621	CONVENTIONAL LAGOON SEASONAL	0.59 (1000 M3)

REGION	:	SOUTHEAST
DISTRICT	:	PRESCOTT AND RUSSELL
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	SOUTH NATION RIVER
MINOR BASIN	:	OTTAWA RIVER
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	876

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.44	0.44	0.59	0.67	0.64	0.65	0.71	0.69	0.64	0.75	0.93	0.52	0.64	
LAGOON DISCHARGE	ND	ND	ND	ND	8.00	103.00	ND	ND	ND	ND	107.50	22.70	60.50	
BOD5														
INFLUENT (MG/L)	ND	ND	170.0	ND	106.0	84.0	118.0	202.0	125.0	139.0	165.0	45.0	128.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	5.5	ND	ND	ND	ND	ND	2.6	4.0	4.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	3.52	ND	ND	ND	ND	ND	2.60	2.08	2.62	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	172.0	190.0	241.0	164.0	322.0	269.0	277.0	558.0	432.0	234.0	150.0	104.0	259.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	8.3	ND	ND	ND	ND	ND	9.6	4.0	7.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	5.31	ND	ND	ND	ND	ND	9.11	2.08	4.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	7.1	7.5	3.0	7.1	5.3	5.4	7.1	8.4	3.3	6.6	3.8	5.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	0.3	0.4	0.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.38	ND	ND	ND	ND	ND	0.27	0.20	0.26	

PARAM	COMPLIES	
	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PRESCOTT
 PLANT : EDWARDSBURGH WPCP
 WORKS NUMBER : 110001122
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 5.68 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : LEEDS AND GRENVILLE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ST. LAWRENCE RIVER
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,595

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.98	3.76	4.71	5.50	5.35	5.08	3.95	3.36	3.47	3.75	5.28	3.82	4.33	
BOD5														
INFLUENT (MG/L)	75.0	90.0	86.0	65.0	51.0	29.0	39.0	56.0	49.0	56.0	28.0	47.0	55.9	
EFFLUENT (MG/L)	30.0	23.5	17.0	12.0	19.0	8.0	14.0	14.0	13.0	15.5	14.3	20.3	16.7	
LOADING (KG/D)	119.40	88.36	80.07	66.00	119.0	40.64	55.30	47.04	45.11	58.12	75.50	77.54	72.67	
PERCENT REMOVAL	60	74	80	82	63	72	64	75	73	72	49	57	70	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	102.0	168.0	133.0	122.0	121.0	82.0	99.0	149.0	117.0	123.0	88.0	118.0	118.5	
EFFLUENT (MG/L)	21.0	22.0	18.5	13.0	17.5	16.0	17.0	17.0	22.7	19.6	13.8	14.5	17.7	
LOADING (KG/D)	83.58	82.72	87.13	71.50	93.62	81.28	67.15	57.12	78.76	73.50	72.86	55.39	76.64	
PERCENT REMOVAL	79	87	86	89	86	80	83	89	81	84	84	88	85	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	5.2	3.8	3.2	2.9	ND	2.7	4.6	3.3	3.2	1.5	3.0	3.3	
EFFLUENT (MG/L)	0.6	0.7	0.5	0.3	0.4	0.2	0.4	0.6	0.8	0.5	0.2	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.58	2.63	2.35	1.65	2.14	1.01	1.58	2.01	2.77	1.87	1.05	ND	2.17	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	50%	YES	
SS	70%	YES	
TP	1.0 MG/L	YES	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED
 OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY

START DATE END DATE ANTICIPATED COMPLIANCE

1989

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: RENFREW
: RENFREW WPCP
: 120000603
: PRIMARY

: PHOSPHORUS REMOVAL-CONTINUOUS
:
:

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BONNECHERE RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,200

DESIGN CAPACITY : 0.63 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.34	4.09	6.00	5.78	6.07	5.80	5.74	4.86	7.05	7.05	9.82	5.07	5.97	
BOD5														
INFLUENT (MG/L)	72.0	86.0	24.0	53.0	16.0	20.0	29.0	26.0	13.0	60.0	28.0	135.0	46.8	
EFFLUENT (MG/L)	20.0	16.0	10.0	11.5	6.0	5.0	6.5	8.0	4.4	7.6	7.0	22.0	10.3	
LOADING (KG/D)	86.80	65.44	60.00	66.47	36.42	29.00	37.31	38.88	31.02	53.58	68.74	111.54	61.49	
PERCENT REMOVAL	72	81	58	78	63	75	78	69	66	87	75	84	78	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	104.0	123.0	81.0	214.0	42.0	61.0	60.0	52.0	37.0	62.0	57.0	119.0	84.3	
EFFLUENT (MG/L)	15.0	20.0	29.0	14.0	9.0	8.0	12.0	10.0	6.0	11.0	9.0	21.0	13.7	
LOADING (KG/D)	65.10	81.80	174.00	80.92	54.63	46.40	68.88	48.60	42.30	77.55	88.38	106.47	81.79	
PERCENT REMOVAL	86	84	64	93	79	87	80	81	84	82	84	82	84	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.0	1.6	3.7	0.8	2.3	2.3	2.1	0.8	3.7	1.5	5.5	2.7	
EFFLUENT (MG/L)	0.2	0.4	0.8	0.4	0.2	0.2	0.7	0.4	0.2	0.4	0.2	0.5	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.86	1.63	4.80	2.31	1.21	1.16	4.01	1.94	1.41	2.82	1.96	2.53	2.39	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	YES
BOD	50%	YES	YES
SS	70%	YES	YES
TP	1.0 MG/L	YES	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : OTTAWA RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,000

MUNICIPALITY : ROCKLAND
 PLANT : ROCKLAND LAGOON
 WORKS NUMBER : 110001159
 TREATMENT : AERATED CELL PLUS LAGOON
 : CONTINUOUS DISCHARGE
 :
 DESIGN CAPACITY : 3.34 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.80	1.75	2.29	2.82	2.44	2.49	2.07	2.14	2.08	2.28	3.05	2.18	2.28	
LAGOON DISCHARGE	55.80	49.00	70.90	84.60	75.61	74.82	64.02	66.24	62.40	70.79	91.50	67.56	69.44	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	210.0	68.0	64.0	106.0	156.0	148.0	108.0	132.0	115.0	123.0	
EFFLUENT (MG/L)	ND	ND	ND	7.0	6.8	6.3	11.8	15.0	32.3	6.0	5.7	31.0	13.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	19.74	16.59	15.68	24.42	32.10	67.18	13.68	17.38	67.58	30.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	282.0	233.0	101.0	121.0	149.0	88.0	197.0	239.0	144.0	191.0	303.0	295.0	195.3	
EFFLUENT (MG/L)	21.0	29.0	33.0	23.5	21.6	18.3	28.0	38.4	18.1	19.8	7.1	17.3	22.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	37.80	50.75	75.57	66.27	52.70	45.56	57.96	82.17	37.64	45.14	21.65	37.71	52.21	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	5.0	5.1	4.0	4.3	5.3	5.1	5.5	5.5	5.8	5.1	6.7	5.3	
EFFLUENT (MG/L)	2.5	3.6	3.6	2.9	2.0	3.3	1.7	2.3	2.5	3.0	2.6	3.3	2.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.50	6.30	8.24	8.17	4.88	8.21	3.51	4.92	5.20	6.84	7.93	7.19	6.38	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE :
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,500

MUNICIPALITY : RUSSELL
 PLANT : EMBRUN P.V. LAGOON
 WORKS NUMBER : 120002004
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 1.60 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.76	0.78	0.93	0.97	1.15	0.88	0.85	0.99	0.94	1.10	0.94	1.10	0.95	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5	300.0	190.0	135.0	180.0	130.0	105.0	190.0	90.0	165.0	210.0	165.0	165.0	168.8	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SUSPENDED SOLIDS	600.0	405.0	213.0	113.0	305.0	136.0	196.0	136.0	135.0	123.0	135.0	220.0	226.4	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL PHOSPHOROUS	22.7	14.1	8.5	8.6	7.2	9.9	9.6	8.7	7.8	9.6	7.8	9.2	10.3	
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	NO DISCHARGE	
SS	40.0 MG/L	NO DISCHARGE	
TP	NA	NO DISCHARGE	

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	: RUSSELL
PLANT	: RUSSELL LAGOON
WORKS NUMBER	: 110001514
TREATMENT	: CONVENTIONAL LAGOON ANNUAL

DESIGN CAPACITY : 1.00 (1000 M3)

REGION	:	SOUTHEAST
DISTRICT	:	PRESCOTT AND RUSSELL
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	CASTOR RIVER
MINOR BASIN	:	OTTAWA RIVER
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,400

[illegible]

SUMMARY

CRITERIA	COMPLIES WITH CONC
30.0 MG/L	YES
40.0 MG/L	NO
1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SIDNEY
: BATAWA WPCP
: 110000668
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

DESIGN CAPACITY

: 0.56 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.53	0.51	0.42	0.58	0.57	0.29	0.21	0.21	0.19	0.28	0.77	0.30	0.41	
BOD5														
INFLUENT (MG/L)	124.0	177.0	62.0	53.0	90.0	69.0	148.0	178.0	72.0	126.0	99.0	76.0	106.2	
EFFLUENT (MG/L)	6.6	8.3	7.0	5.0	3.0	4.5	3.0	3.1	2.2	4.3	8.0	1.0	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.49	4.23	2.94	2.90	1.71	1.30	0.63	0.65	0.41	1.20	6.16	0.30	1.93	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	55.0	73.0	55.0	78.0	60.0	74.0	122.0	71.0	120.0	81.0	65.0	88.0	78.5	
EFFLUENT (MG/L)	18.0	13.0	21.6	21.0	11.0	13.0	8.0	7.6	6.2	8.5	14.0	9.8	12.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.54	6.63	9.07	12.18	6.27	3.77	1.68	1.59	1.17	2.38	10.78	2.94	5.17	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	4.1	5.7	2.9	6.8	4.9	4.0	3.8	2.5	4.0	4.0	1.6	4.0	
EFFLUENT (MG/L)	1.0	0.6	9.4*	1.7*	0.7	0.7	0.5	0.4	0.2	0.4	0.5	0.4	1.4	
CONCENTRATION LIMIT (MG/L)													2	
LOADING (KG/D)	0.53	0.30	3.94	0.98	0.39	0.20	0.10	0.08	0.03	0.11	0.38	0.12	0.57	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SMITHS FALLS
: SMITHS FALLS WPCP
: 120000890
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHEAST
DISTRICT : LANARK
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RIDEAU RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 11,000

DESIGN CAPACITY : 11.36 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.09	8.56	10.73	12.54	14.61	13.76	10.87	7.82	7.80	8.54	11.13	8.25	10.31	
BOD5														
INFLUENT (MG/L)	139.0	98.0	115.0	86.0	198.0	95.0	124.0	81.0	90.0	85.0	135.0	440.0	140.5	
EFFLUENT (MG/L)	141.0	29.0	16.0	13.0	29.5	16.0	8.0	11.5	17.0	38.0	11.5	26.0	29.7	
LOADING (KG/D)	1281.69	248.24	171.68	163.02	430.99	220.16	86.96	89.93	132.60	324.52	127.99	214.50	306.21	
PERCENT REMOVAL	ND	70	86	85	85	83	94	86	81	55	91	94	79	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	205.0	107.0	111.0	76.0	105.0	243.0	89.0	105.0	105.0	129.0	294.0	169.0	144.8	
EFFLUENT (MG/L)	57.0	28.0	19.0	22.0	29.5	22.5	23.5	40.0	30.0	36.0	24.5	23.0	29.6	
LOADING (KG/D)	518.13	239.68	203.87	275.88	430.99	309.60	255.44	312.80	234.00	307.44	272.68	189.75	305.18	
PERCENT REMOVAL	72	74	83	71	72	91	74	62	71	72	92	86	80	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	5.0	5.5	3.6	3.2	4.4	3.6	5.8	4.0	4.8	6.6	5.7	4.7	
EFFLUENT (MG/L)	1.7*	0.4	0.6	0.4	0.5	0.6	1.0	2.0*	1.2*	0.7	0.9	0.5	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	15.45	3.42	6.43	5.01	7.30	8.25	10.87	15.64	9.36	5.97	10.01	4.12	9.28	

SUMMARY		COMPLIES	
PARAM	CRITERIA	50%	70%
BOD	WITH CONC	YES	YES
SS		YES	YES
TP	1.0 MG/L	NO	NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED

START DATE END DATE COMPLIANCE

1988 1990 1993

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST ISIDORE DE PRESCOTT
 PLANT : ST ISIDORE LAGOON
 WORKS NUMBER : 110002210
 TREATMENT : CONVENTIONAL LAGOON ANNUAL

DESIGN CAPACITY : 0.65 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SCOTCH RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 772

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.24	0.23	0.27	0.29	0.31	0.34	0.40	0.40	0.39	0.39	0.48	0.40	0.35	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5	190.0	248.0	101.0	134.0	99.0	95.0	127.0	225.0	162.0	155.0	165.0	238.0	161.6	
INFLUENT (MG/L)	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	7.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	30.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	2.17	ND	ND	ND	ND	ND	ND	ND	2.45	
LOADING (KG/D)														
SUSPENDED SOLIDS	141.0	206.0	99.0	125.0	125.0	92.0	78.0	307.0	135.0	159.0	120.0	189.0	148.0	
INFLUENT (MG/L)	ND	ND	ND	ND	296.7	ND	ND	ND	ND	ND	ND	ND	296.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	296.7	ND	ND	ND	ND	ND	ND	ND	40.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	91.97	ND	ND	ND	ND	ND	ND	ND	103.85	
LOADING (KG/D)														
TOTAL PHOSPHOROUS	11.1	14.0	8.9	9.8	7.6	7.6	6.7	11.2	9.0	9.1	8.0	11.9	9.6	
INFLUENT (MG/L)	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	1.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	1.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	0.49	ND	ND	ND	ND	ND	ND	ND	0.56	
LOADING (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 30.0 MG/L	YES
SS 40.0 MG/L	NO
TP NA	NA

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

START DATE : 1990
 END DATE :
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STIRLING LAGOON
 PLANT : STIRLING LAGOON
 WORKS NUMBER : 11000686
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.13 (1000 M3)
 :
 REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : RAWDON CREEK
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.84	0.75	1.04	0.93	0.94	0.96	0.86	0.94	1.03	0.87	1.08	1.08	1.69	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	7460.00	ND	ND	ND	7460.00	
BODS														
INFLUENT (MG/L)	660.0	720.0	300.0	100.0	45.0	230.0	46.0	24.0	40.0	ND	10.0	1,200.0	306.8	
EFFLUENT (MG/L)	ND	ND	ND	18.0	2.0	ND	ND	ND	9.0	ND	ND	ND	9.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	16.74	1.88	ND	ND	ND	9.27	ND	ND	ND	16.39	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	344.0	757.0	370.0	107.0	39.0	370.0	85.0	60.0	88.0	ND	11.0	1,580.0	346.5	
EFFLUENT (MG/L)	ND	ND	ND	76.0	27.0	ND	ND	ND	27.0	ND	ND	ND	43.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	70.68	25.38	ND	ND	ND	27.81	ND	ND	ND	73.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	16.4	15.6	15.3	7.0	5.6	15.3	4.9	3.4	7.1	ND	1.8	76.5	15.4	
EFFLUENT (MG/L)	ND	ND	ND	1.7*	0.3	ND	ND	ND	1.0	ND	ND	ND	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	1.58	0.28	ND	ND	ND	1.03	ND	ND	ND	1.69	

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
 FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1990/06	1990/12	1990
1990/06	1990/12	1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TRENTON
 PLANT : TRENTON WPCP
 WORKS NUMBER : 110000775
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 15.91 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : BAY OF QUINTE
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 15,346

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	13.50	10.31	11.01	12.07	12.94	12.03	8.62	9.25	9.92	11.03	15.09	9.94	11.38	
BOD5														
INFLUENT (MG/L)	317.0	289.0	202.0	170.0	341.0	237.0	258.0	276.0	166.0	204.0	196.0	165.0	236.8	
EFFLUENT (MG/L)	20.5	24.0	14.0	11.8	15.2	10.4	6.0	7.0	5.9	7.3	10.5	15.3	12.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	276.75	247.44	154.14	151.86	196.68	125.11	51.72	64.75	58.52	80.51	158.44	152.08	139.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	142.0	155.0	160.0	86.0	106.0	135.0	112.0	104.0	116.0	114.0	115.0	119.0	122.0	
EFFLUENT (MG/L)	24.7	35.6	24.9	22.3	20.9	18.3	14.0	14.6	14.0	14.1	15.0	14.2	19.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	333.45	367.03	274.14	287.00	270.44	220.14	120.68	135.05	138.88	155.52	226.35	141.14	220.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.8	6.9	8.1	6.0	7.2	6.0	5.3	5.6	7.0	6.8	5.8	5.7	6.6	
EFFLUENT (MG/L)	0.7	0.4	0.4	0.6	0.5	0.5	0.6	0.6	0.5	0.4	0.7	0.5	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.45	4.12	4.40	7.72	6.47	6.01	5.17	5.55	4.96	4.41	10.56	4.97	5.69	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TWEED LAGOON
 PLANT : 120000952
 WORKS NUMBER : CONVENTIONAL LAGOON SEASONAL
 TREATMENT : PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.20 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MOIRA RIVER
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,607

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.06	1.26	1.13	2.16	1.47	1.29	0.92	0.69	0.76	1.01	1.75	1.33	1.24	
LAGOON DISCHARGE	ND	ND	ND	85.12	150.86	ND	ND	ND	ND	ND	ND	ND	117.99	
BOD5														
INFLUENT (MG/L)	98.0	92.0	86.0	70.0	71.0	54.0	ND	107.0	173.0	79.0	88.0	83.0	91.0	
EFFLUENT (MG/L)	ND	ND	ND	15.8	5.6	ND	ND	ND	ND	ND	10.0	ND	10.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	34.12	8.23	ND	ND	ND	ND	ND	17.50	ND	13.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	114.0	93.0	99.0	86.0	74.0	66.0	107.0	121.0	265.0	83.0	134.0	ND	112.9	
EFFLUENT (MG/L)	ND	ND	ND	30.8	12.4	ND	ND	ND	ND	ND	17.0	ND	20.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	66.52	18.22	ND	ND	ND	ND	ND	29.75	ND	24.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	3.8	15.6	3.2	3.6	3.6	7.1	7.4	7.2	3.9	3.1	4.3	5.6	
EFFLUENT (MG/L)	ND	ND	ND	1.2*	0.3	ND	ND	ND	ND	ND	0.2	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	2.59	0.44	ND	ND	ND	ND	ND	0.35	ND	0.74	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

START DATE END DATE COMPLIANCE

1990
 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VANKLEEK HILL
 PLANT : VANKLEEK HILL LAGOON
 WORKS NUMBER : 110001658
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.90 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LITTLE RIDEAU CREEK
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,711

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.82	0.78	1.24	1.17	0.90	0.91	0.71	0.83	0.76	0.82	1.29	0.92	0.93	
LAGOON DISCHARGE	ND	ND	ND	37.63	21.08	ND	ND	ND	ND	ND	19.68	9.96	22.09	
BOD5														
INFLUENT (MG/L)	ND	48.0	68.0	18.0	36.0	26.0	80.0	53.0	58.0	75.0	59.0	79.0	54.5	
EFFLUENT (MG/L)	ND	ND	ND	27.0	10.7	ND	ND	ND	ND	ND	2.0	18.7	14.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	31.59	9.63	ND	ND	ND	ND	ND	2.58	17.20	13.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	72.0	78.0	53.0	45.0	85.0	52.0	146.0	49.0	71.0	67.0	106.0	92.0	76.3	
EFFLUENT (MG/L)	ND	ND	ND	6.1	23.2	ND	ND	ND	ND	ND	27.0	19.7	19.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.83	18.12	40.0	
LOADING (KG/D)	ND	ND	ND	7.13	20.88	ND	ND	ND	ND	ND	ND	ND	17.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	5.0	5.9	2.1	3.4	2.9	5.6	3.5	3.8	4.8	3.8	3.9	4.0	
EFFLUENT (MG/L)	ND	ND	ND	1.7	1.3	ND	ND	ND	ND	ND	0.3	3.5	1.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	1.98	1.17	ND	ND	ND	ND	ND	0.38	3.22	1.58	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 # - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WELLINGTON
 PLANT : WELLINGTON WPCP
 WORKS NUMBER : 120003165
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 1.50 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : PRINCE EDWARD
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : LAKE ONTARIO
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,077

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.42	0.42	0.59	0.94	0.74	0.60	0.42	0.37	0.34	0.40	0.64	0.54	0.54	
BOD5														
INFLUENT (MG/L)	135.0	145.0	108.0	42.0	72.0	70.0	255.0	112.0	255.0	215.0	130.0	88.0	135.6	
EFFLUENT (MG/L)	1.0	3.0	8.0	4.0	2.0	4.0	2.0	3.0	2.0	1.6	2.0	2.0	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.42	1.26	4.72	3.76	1.48	2.40	0.84	1.11	0.68	0.64	1.28	1.08	1.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	106.0	125.0	128.0	59.0	68.0	266.0	136.0	185.0	122.0	78.0	68.0	120.1	
EFFLUENT (MG/L)	3.0	9.0	21.0	18.0	9.0	2.0	4.0	11.0	4.0	7.8	5.0	11.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.26	3.78	12.39	16.92	6.66	1.20	1.68	4.07	1.36	3.12	3.20	5.94	4.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	15.1	6.1	7.1	2.6	5.4	8.9	11.4	9.6	16.7	9.1	7.4	5.4	8.7	
EFFLUENT (MG/L)	1.2*	0.8	1.6*	0.5	0.9	0.5	0.5	0.7	0.7	0.6	0.7	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.50	0.33	1.06	0.47	0.66	0.30	0.21	0.25	0.23	0.24	0.44	0.37	0.43	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY
 COMPLIES
 WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED
 OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED

START DATE END DATE ANTICIPATED COMPLIANCE
 1989 1989/06 1990
 1989 1989/06 1990

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WESTPORT
 PLANT : WESTPORT LAGOON
 WORKS NUMBER : 110001550
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.24 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : LEEDS AND GRENVILLE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : UPPER RIDEAU LAKE
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 566

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.24 ND	0.23 ND	0.25 ND	0.30 ND	0.34 52.46	0.32 ND	0.28 ND	0.26 ND	0.24 ND	0.26 ND	0.31 47.68	0.26 ND	0.27 50.07	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	79.0 ND ND ND	141.0 ND ND ND	116.0 ND ND ND	85.0 14.7 4.41	99.0 10.0 3.40	73.0 ND ND	94.0 ND ND	137.0 ND ND	120.0 ND ND	133.0 ND ND	73.0 9.4 2.91	58.0 ND ND	100.7 11.4 25.0 3.08	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	108.0 ND ND ND	190.0 ND ND ND	241.0 ND ND ND	85.0 28.0 8.40	127.0 15.7 5.33	87.0 ND ND	89.0 ND ND	115.0 ND ND	82.0 ND ND	115.0 ND ND	80.0 15.4 4.77	46.0 ND ND	113.8 19.7 25.0 5.32	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	5.1 1.0 ND	7.3 ND ND	6.3 ND 1.0	4.8 1.74 1.0	8.7 0.3 1.0	6.0 ND 1.0	4.9 ND 1.0	7.3 ND 1.0	6.1 ND ND	6.7 ND 1.0	5.6 0.6 1.0	4.4 ND 1.0	6.1 0.9 0.24	1

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE :
 END DATE :
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: WILLIAMSBURG TWP	REGION	: SOUTHEAST
PLANT	: WILLIAMSBURG PV LAGOON	DISTRICT	: STORMONT, DUNDAS AND GLENGARRY
WORKS NUMBER	: 12002013	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL LAGOON ANNUAL	WATERCOURSE	: MCHARTIN DRAIN
		MINOR BASIN	: OTTAWA RIVER
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 1.22 (1000 M3)	POPULATION SERVED	: 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.30 ND	0.36 ND	0.38 ND	0.49 ND	0.56 ND	0.65 ND	0.45 ND	0.25 ND	0.31 ND	0.41 ND	0.63 ND	0.44 ND	0.44	
BOD5 INFLUENT (MG/L)	180.0	88.0	230.0	60.0	102.0	68.0	65.0	84.0	135.0	145.0	90.0	66.0	109.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS INFLUENT (MG/L)	124.0	85.0	113.0	77.0	115.0	76.0	66.0	82.0	77.0	84.0	51.0	48.0	83.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS INFLUENT (MG/L)	7.9	8.0	7.1	5.6	5.7	3.9	5.7	6.6	6.2	8.9	5.2	3.3	6.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	NO DISCHARGE	
SS	40.0 MG/L	NO DISCHARGE	
TP	NA	NO DISCHARGE	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WINCHESTER
 PLANT : WINCHESTER LAGOON
 WORKS NUMBER : 110001202
 TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 1.72 (1000 M3)

REGION : SOUTHEAST
 DISTRICT : STORMONT, DUNDAS AND GLENGARRY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CASTOR RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	1.03 ND	1.01 ND	1.18 ND	1.48 ND	1.75 ND	1.66 ND	1.43 ND	1.63 ND	1.07 ND	1.22 ND	1.69 ND	1.11 ND	1.36	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	210.0 ND ND ND	160.0 ND ND ND	157.0 ND ND ND	123.0 34.3 50.76	114.5 ND ND	44.0 ND ND	61.0 ND ND	97.0 ND ND	75.0 ND ND	56.0 ND ND	66.0 0.8 1.35	83.0 ND ND	103.9 17.6 30.0 23.94	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	226.0 ND ND ND	155.0 ND ND ND	168.0 ND ND ND	920.0 24.0 35.52	867.5 ND ND	81.0 ND ND	106.0 ND ND	118.0 ND ND	71.0 ND ND	40.0 ND ND	78.0 14.0 23.66	56.0 ND ND	240.5 19.0 40.0 25.84	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	8.8 ND ND ND	7.7 ND ND ND	9.1 ND ND ND	8.0 5.6 8.28	7.4 ND ND	ND ND ND	5.9 ND ND	7.2 ND ND	6.0 ND ND	6.8 ND ND	4.9 0.8 1.35	6.1 ND ND	7.1 3.2 4.35	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

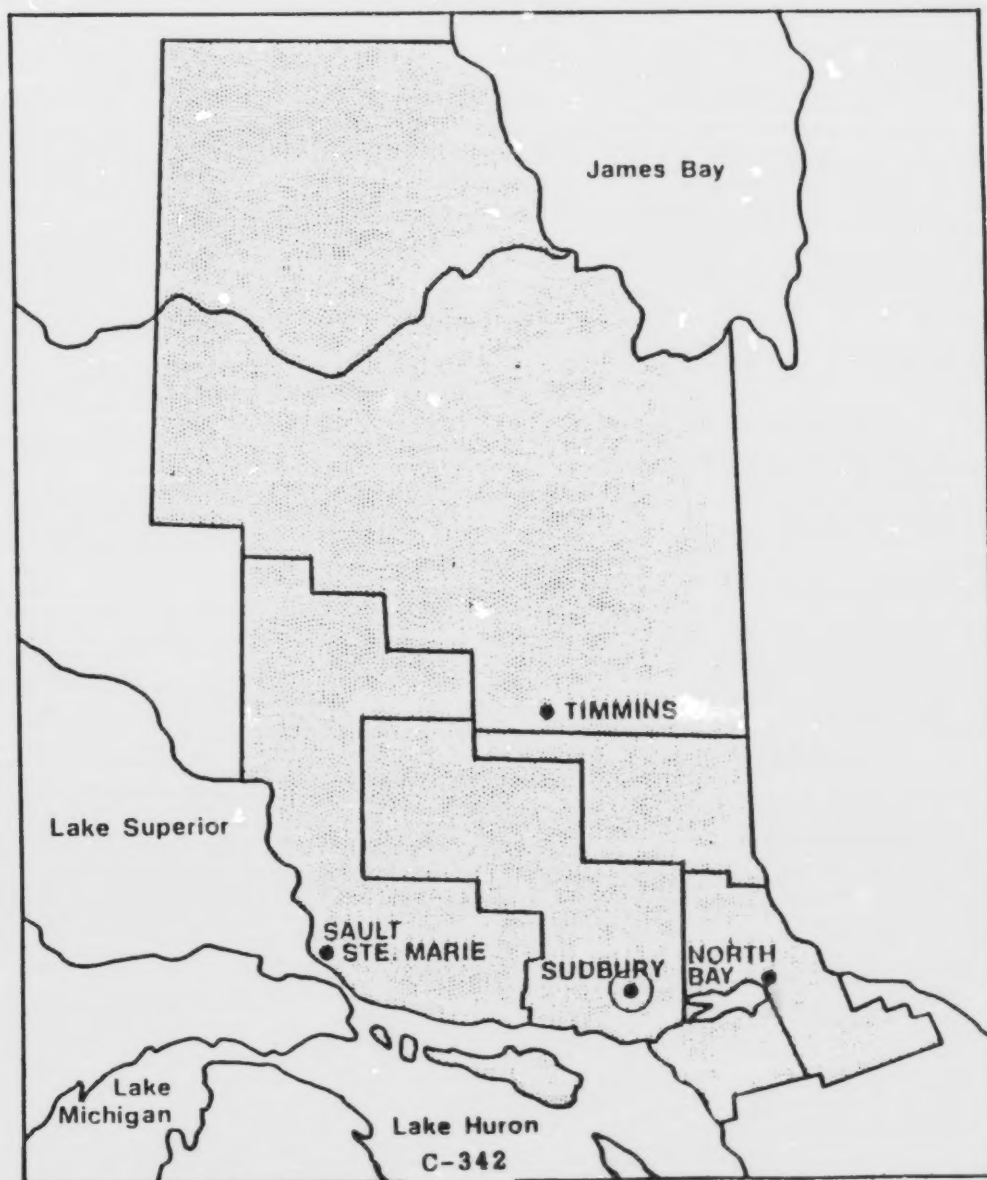
NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

Northeastern Region

⑤



Ministry
of the
Environment



Northeastern Region

5



Ministry
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Ontario

REGIONAL OFFICE

Sudbury
199 Larch St.
P3E 5P9
(705) 675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
P1B 2H3
(705) 476-1001

Sault Ste. Marie
445 Albert St. East
P6A 2J9
(705) 949-4640

Sudbury
199 Larch St.
P3E 5P9
(705) 675-4501

Timmins
83 Algonquin Blvd. West
P4N 2R4
(705) 268-3222

SUB-OFFICE

Parry Sound
74 Church St.
P2A 1Z1
(705) 746-2139

NORTHEAST SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	2	1	3	57.55	34.09	91.64
Conventional Activated Sludge	4	4	8	65.69	25.44	91.13
Contact Stabilization	3	1	4	18.24	6.82	25.06
Extended Aeration	10	7	17	20.43	18.95	39.38
Trickling Filter	0	1	1	-	0.91	0.91
High Rate	0	1	1	-	68.19	68.19
Oxidation Ditch	0	1	1	-	3.00	3.00
Communal Septic Tank	0	1	1			
Aerated Lagoon	1	0	1	4.55	-	4.55
Convent. Lagoon Continuous	4	2	6	1.23	-	1.23
Conventional Lagoon Seasonal	23	9	32	14.42	57.31	71.73
Aerated Cell Plus Lagoon	2	1	3	12.32	0.39	12.71
Exfiltration Lagoon	2	2	4	1.68	1.54	3.23
TOTALS	51	31	82	196.11	216.64	412.75

1000M3/D: Thousands of cubic meters per day

ADF: Average Daily Flow

NORTHEAST SUMMARY - 1989

Treatment Type	Number			Annual ADF (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	2	1	3	35.60	20.36	55.96
Conventional Activated Sludge	4	4	8	49.27	15.22	64.49
Contact Stabilization	3	1	4	15.61	4.07	19.68
Extended Aeration	10	7	17	28.64	15.79	44.43
Trickling Filter	0	1	1	0.00	0.77	0.77
High Rate	0	1	1	0.00	60.42	60.42
Oxidation Ditch	0	1	1	0.00	1.59	1.59
Communal Septic Tank	0	1	1	0.00	0.00	0.00
Aerated Lagoon	1	0	1	2.90	0.00	2.90
Convent. Lagoon Continuous	4	2	6	1.93	0.00	1.93
Conventional Lagoon Seasonal	23	9	32	13.43	3.01	16.44
Aerated Cell Plus Lagoon	2	1	3	6.87	0.26	7.13
Exfiltration Lagoon	2	2	4	1.79	3.06	4.85
TOTALS	51	31	32	156.04	124.55	280.59

1000M3/D: Thousands of cubic meters per day

ADF: Average Daily Flow

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARMSTRONG
PLANT : EARLTON LAGOON
WORKS NUMBER : 120000042
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
DESIGN CAPACITY : 0.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : EVANTUREL CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,452

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 16.00	ND ND	ND ND	ND ND	16.00	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	121.0 30.0 ND ND	ND ND ND ND	ND ND ND ND	56.0 32.0 ND ND	120.0 16.0 ND ND	145.0 16.0 ND ND	160.0 28.0 ND ND	145.0 12.0 ND ND	ND ND ND ND	205.0 12.0 ND ND	95.0 24.0 ND ND	131.1 21.3 30.0	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	140.0 20.0 ND ND	ND ND ND ND	ND ND ND ND	60.0 40.0 ND ND	110.0 10.0 ND ND	50.0 30.0 ND ND	140.0 30.0 ND ND	50.0 7.2 ND ND	ND ND ND ND	25.0 20.1 ND ND	130.0 40.0 ND ND	90.6 24.7 40.0	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	ND ND ND ND	7.6 7.0 ND ND	ND ND ND ND	ND ND ND ND	7.4 7.2 ND ND	7.2 7.1 ND ND	7.2 7.1 ND ND	7.4 8.5 ND ND	7.2 7.3 ND ND	ND ND ND ND	7.1 8.0 ND ND	760.0 7.3 ND ND	101.4 7.5	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

COMPLIES
WITH CONC
PARM CRITERIA
BOD 30.0 MG/L INSUFFICIENT DATA
SS 40.0 MG/L INSUFFICIENT DATA
TP NA INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ASSIGINACK
 PLANT : MANITOWANING LAGOON
 WORKS NUMBER : 110001408
 TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
 DISTRICT : MANITOULIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE HURON
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 440

DESIGN CAPACITY : 0.25 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.28 ND	0.25 ND	0.42 ND	0.42 28.33	0.23 ND	0.21 ND	0.24 ND	0.23 ND	0.18 ND	0.18 ND	0.25 27.28	0.19 ND	0.26 27.81	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	165.0 ND ND ND	78.0 ND ND ND	210.0 ND ND ND	45.0 15.2 6.38	18.0 ND ND	42.0 ND ND	64.0 ND ND	7.0 ND ND	46.0 ND ND	32.0 ND ND	34.0 18.9 4.72	160.0 ND ND	75.1 17.1 30.0 4.45	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	120.0 ND ND ND	75.0 ND ND ND	200.0 ND ND ND	65.0 40.4 16.96	25.0 ND ND	80.0 ND ND	35.0 ND ND	20.0 ND ND	30.0 ND ND	25.0 ND ND	30.0 26.0 6.50	200.0 ND ND	75.4 33.2 40.0 8.63	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	4.0 ND ND ND	4.2 ND ND ND	7.6 ND ND ND	2.5 2.8 1.17	1.5 ND ND	1.7 ND ND	4.0 ND ND	1.4 ND ND	2.9 ND ND	2.7 ND ND	2.8 2.2 0.55	10.4 ND ND	3.8 2.5 0.65	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 920

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.35	0.36	0.51	1.03	0.91	0.63	0.45	0.52	0.41	0.51	0.60	0.35	0.55	
<u>BOD5</u>														
INFLUENT (MG/L)	95.0	145.0	66.0	60.0	44.0	47.0	77.0	61.3	66.5	65.0	74.0	124.0	77.1	
EFFLUENT (MG/L)	5.7	8.0	7.7	3.9	6.7	12.7	3.4	5.1	9.8	10.6	4.1	6.0	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.99	2.88	3.92	4.01	6.09	8.00	1.53	2.65	4.01	5.40	2.46	2.10	3.85	
<u>SUSPENDED SOLIDS</u>														
INFLUENT (MG/L)	110.0	155.0	75.0	90.0	78.0	69.0	48.5	53.3	50.0	93.0	93.0	120.0	86.2	
EFFLUENT (MG/L)	9.5	7.0	5.5	5.5	4.0	4.2	5.3	4.7	6.0	8.5	8.5	9.5	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.32	2.52	2.80	5.66	3.64	2.64	2.38	2.44	2.46	4.33	5.10	3.32	3.58	
<u>TOTAL PHOSPHOROUS</u>														
INFLUENT (MG/L)	5.6	5.5	4.6	4.1	2.7	4.4	5.4	4.6	3.3	4.1	3.3	5.0	4.4	
EFFLUENT (MG/L)	2.7	3.2	1.9	1.2	1.5	1.8	2.1	2.1	2.3	2.1	1.5	2.2	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.94	1.15	0.96	1.23	1.36	1.13	0.94	1.09	0.94	1.07	0.90	0.77	1.16	

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES
NO DATA
NA - NOT APPLICABLE

<u>SUMMARY</u>		
<u>PARAM</u>	<u>CRITERIA</u>	<u>COMPLIES WITH CONC</u>
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : RAMORE LAGOON
WORKS NUMBER : 110001104
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 320

DESIGN CAPACITY : 0.12 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.10	0.09	0.11	0.25	0.22	0.16	0.14	0.18	0.10	0.14	0.15	0.10	0.15	
LAGOON DISCHARGE	3.06	2.59	3.31	27.25	0.69	ND	ND	ND	0.21	0.34	ND	1.51	4.33	
BOD5														
INFLUENT (MG/L)	127.5	270.0	53.0	69.0	46.0	123.0	89.0	109.3	95.0	65.0	51.0	149.0	103.9	
EFFLUENT (MG/L)	18.0	22.0	23.0	14.5	ND	ND	12.8	9.7	20.0	ND	ND	40.0	20.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	1.80	1.98	2.53	3.62	ND	ND	1.79	1.74	2.00	ND	ND	4.00	3.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	162.5	390.0	80.0	65.0	70.0	101.0	54.0	75.0	90.0	88.0	78.0	115.0	114.0	
EFFLUENT (MG/L)	7.0	8.5	15.0	16.8	ND	ND	29.0	18.3	37.5	ND	ND	30.0	20.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	0.70	0.76	1.65	4.20	ND	ND	4.06	3.29	3.75	ND	ND	3.00	3.05	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	12.8	8.9	3.3	3.0	5.1	5.5	5.7	9.3	3.8	5.1	6.6	6.3	
EFFLUENT (MG/L)	3.9	4.5	4.0	2.7	ND	ND	1.6	1.6	1.7	ND	ND	3.0	2.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.39	0.40	0.44	0.67	ND	ND	0.22	0.28	0.17	ND	ND	0.30	0.44	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	INSUFFICIENT DATA	
SS	40.0 MG/L	INSUFFICIENT DATA	
TP	NA	INSUFFICIENT DATA	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - CONSTRUCTION INITIATED

START DATE END DATE
1989/07 COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLACK RIVER MATHESON
 PLANT : VAL GAGNE LAGOON
 WORKS NUMBER : 120001559
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
 : SUMMER STORAGE
 :
 DESIGN CAPACITY : 0.12 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CREEK TO BLACK RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND 19.72	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	19.72	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	129.5 26.0 ND	176.0 42.5 ND	68.0 25.5 ND	54.0 11.3 ND	62.0 ND ND	116.0 ND ND	58.0 ND ND	68.7 ND ND	72.0 ND ND	60.0 ND ND	57.0 ND ND	207.0 ND ND	94.2 26.3 30.0	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	145.0 10.0 ND	190.0 9.5 ND	120.0 9.5 ND	75.0 23.8 ND	100.0 ND ND	96.0 ND ND	72.0 ND ND	65.0 ND ND	60.0 ND ND	68.0 ND ND	110.0 ND ND	228.0 ND ND	112.4 13.2 40.0	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	5.9 3.9 ND	5.4 4.6 ND	5.5 4.0 ND	3.2 1.4 ND	3.6 ND ND	4.3 ND ND	4.6 ND ND	5.6 ND ND	5.4 ND ND	3.4 ND ND	3.6 ND ND	5.3 ND ND	4.7 3.5	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: BLIND RIVER	REGION	: NORTHEAST
PLANT	: BLIND RIVER WPCP	DISTRICT	: ALGOMA
WORKS NUMBER	: 110002416	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: LAKE HURON
	:	MINOR BASIN	: HURON
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 3.50 (1000 M3)	POPULATION SERVED	: 3,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.63	1.58	2.01	1.94	1.67	2.03	1.61	1.64	1.61	1.47	1.57	1.33	1.67	
BOD5														
INFLUENT (MG/L)	106.0	116.0	94.0	41.0	ND	32.0	57.0	62.0	51.0	76.0	80.0	106.0	74.6	
EFFLUENT (MG/L)	1.2	2.7	1.9	4.0	ND	4.5	3.2	2.7	2.0	1.4	1.5	5.0	2.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.95	4.26	3.81	7.76	ND	9.13	5.15	4.42	3.22	2.05	2.35	6.65	4.51	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	109.0	100.0	114.0	56.0	116.0	181.0	62.0	44.0	105.0	109.0	127.0	295.0	118.2	
EFFLUENT (MG/L)	8.5	8.9	3.5	6.9	5.0	6.7	5.3	6.3	5.3	5.0	6.9	9.0	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.85	14.06	7.03	13.38	8.35	13.60	8.53	10.33	8.53	7.35	10.83	11.97	10.69	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	6.2	7.1	2.5	ND	ND	5.3	6.3	4.5	4.6	3.5	5.8	5.2	
EFFLUENT (MG/L)	2.3	2.8	3.2	7.0	ND	2.3	3.5	7.2	3.5	3.5	2.6	3.0	3.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.74	4.42	6.43	13.58	ND	4.66	5.63	11.80	5.63	5.14	4.08	3.99	6.18	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

MUNICIPALITY	: BRUCE MINES
PLANT	: BRUCE MINES LAGOON
WORKS NUMBER	: 110001756
TREATMENT	: CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST. JOSEPH CHL. TO L. HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 525

DESIGN CAPACITY : 0.28 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.32 ND	0.29 ND	0.32 ND	0.68 ND	0.38 55.61	0.36 ND	0.27 ND	0.26 ND	0.25 ND	0.25 ND	0.30 41.40	0.26 ND	0.33 48.51	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	48.0 ND ND	96.0 ND ND	72.0 ND ND	8.0 ND ND	135.0 14.0 5.32	70.0 ND ND	245.0 ND ND	76.0 ND ND	70.0 ND ND	22.0 ND ND	118.0 16.0 4.80	ND ND ND	87.3 15.0 30.0 4.95	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	55.0 ND ND	60.0 ND ND	35.0 ND ND	10.0 ND ND	120.0 42.0 15.96	30.0 ND ND	170.0 ND ND	40.0 ND ND	38.0 ND ND	15.0 ND ND	180.0 5.5 1.65	ND ND ND	68.5 23.8 40.0 7.85	
TOTAL PHOSPHORUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	2.1 ND ND	5.6 ND ND	2.4 ND ND	1.1 ND ND	6.8 2.5 0.95	6.0 ND ND	8.5 ND ND	7.9 ND ND	4.3 ND ND	1.9 ND ND	6.2 1.5 0.45	ND ND ND	4.8 2.0 0.66	

NOTES

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

ANTICIPATED COMPLIANCE	START DATE	END DATE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BURK'S FALLS
 PLANT : BURKS FALLS LAGOON
 WORKS NUMBER : 110001426
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.68 (1000 M3)

REGION : NORTHEAST
 DISTRICT : PARRY SOUND
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MAGNETAWAN RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	0.35 ND	0.33 ND	0.57 ND	0.46 64.80	0.43 32.40	0.39 ND	0.34 ND	0.32 ND	0.35 ND	0.35 ND	0.36 64.80	0.32 ND	0.38 54.00	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	91.0 ND ND ND	150.0 ND ND ND	245.0 ND ND ND	45.0 12.0 5.52	43.0 15.0 6.45	60.0 ND ND	75.0 ND ND	98.0 ND ND	80.0 ND ND	89.0 ND ND	176.0 2.4 0.86	171.0 ND ND	110.3 9.8 30.0 3.72	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	120.0 ND ND ND	150.0 ND ND ND	470.0 ND ND ND	88.0 17.5 8.05	75.0 15.0 6.45	90.0 ND ND	75.0 ND ND	78.0 ND ND	73.0 ND ND	103.0 ND ND	18.0 2.6 0.93	102.0 ND ND	120.2 11.7 40.0 4.45	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	6.0 ND ND ND	7.1 ND ND ND	10.0 ND ND ND	4.5 4.0 1.84	4.0 3.8 1.63	5.8 ND ND	6.8 ND ND	6.0 ND ND	6.0 ND ND	6.0 ND ND	75.0 0.8 0.28	5.0 ND ND	11.9 2.9 1.10	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES WITH CONC
PARAM CRITERIA	YES
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CALDWELL
 PLANT : VERNER LAGOON
 WORKS NUMBER : 110001872
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.47 (1000 M3)

REGION : NORTHEAST
 DISTRICT : MISSISSIPPI
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : VEUE RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,116

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.43	0.38	0.56	0.57	0.62	0.56	0.47	0.43	0.38	0.40	0.52	0.44	0.48	
LAGOON DISCHARGE	ND	36.76	ND	6.66	19.28	51.29	14.50	13.28	5.59	36.07	ND	ND	22.93	
BOD5														
INFLUENT (MG/L)	61.0	53.0	101.0	53.0	47.0	73.0	112.0	80.0	146.0	143.0	119.0	93.0	90.1	
EFFLUENT (MG/L)	ND	18.2	ND	19.0	8.5	4.0	3.3	3.9	9.8	5.0	ND	ND	9.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	6.91	ND	10.83	5.27	2.24	1.55	1.67	3.72	2.00	ND	ND	4.32	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	88.0	128.0	135.0	74.0	146.0	75.0	77.5	57.5	125.0	110.0	133.0	104.5	
EFFLUENT (MG/L)	ND	15.2	ND	80.0	13.3	9.3	15.0	7.5	10.5	6.8	ND	ND	19.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	5.77	ND	45.60	8.24	5.20	7.05	3.22	3.99	2.72	ND	ND	9.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	3.0	7.4	1.0	5.3	3.7	3.4	6.3	3.3	6.2	4.5	3.9	4.4	
EFFLUENT (MG/L)	ND	1.0	ND	1.0	0.8	0.6	0.5	0.6	0.7	0.5	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.34	
	ND	0.38	ND	0.57	0.49	0.33	0.23	0.25	0.26	0.20	ND	ND		

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: CAPREOL	REGION	: NORTHEAST
PLANT	: CAPREOL LAGOON	DISTRICT	: SUDBURY, REG. MUN.
WORKS NUMBER	: 120001210	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: EXFILTRATION LAGOON	WATERCOURSE	: NO DISC TO SURFACE WATER
	:	MINOR BASIN	: HURON
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 1.54 (1000 M3)	POPULATION SERVED	: 3,352

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.72	3.23	0.66	3.63	3.75	5.41	ND	2.79	2.85	2.55	2.46	2.67	3.06	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	120.0	48.0	ND	ND	82.0	122.0	ND	ND	93.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.8	22.0	ND	ND	13.0	12.0	14.0	ND	13.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	25.50	119.02	ND	ND	37.05	30.60	34.44	ND	41.62	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	95.0	15.0	ND	ND	35.0	170.0	ND	ND	78.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	25.0	70.0	ND	ND	8.0	15.0	20.0	ND	27.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	93.75	378.70	ND	ND	22.80	38.25	49.20	ND	84.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	5.0	2.2	ND	ND	3.5	6.1	ND	ND	4.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.5	2.6	ND	ND	1.6	2.1	2.5	ND	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	5.62	14.06	ND	ND	4.56	5.35	6.15	ND	6.43	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	NA	NO DIRECT DISCHARGE	
SS	NA	NO DIRECT DISCHARGE	
TP	NA	NO DIRECT DISCHARGE	

NOTE:

BOD - HAS NO CRITERIA

SS - HAS NO CRITERIA

TP - HAS NO CRITERIA

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CASEY
 PLANT : BELLE VALLEE LAGOON
 WORKS NUMBER : 120001808
 TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : BLANCHE RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED :

DESIGN CAPACITY : 0.12 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	470.0 ND ND ND	550.0 ND ND ND	470.0 ND ND ND	480.0 ND ND ND	170.0 ND ND ND	170.0 ND ND ND	200.0 ND ND ND	ND ND ND ND	88.0 ND ND ND	210.0 ND ND ND	170.0 ND ND ND	310.0 ND ND ND	298.9 30.0	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	65.0 ND ND ND	90.0 ND ND ND	130.0 ND ND ND	95.0 ND ND ND	100.0 ND ND ND	50.0 ND ND ND	40.0 ND ND ND	ND ND ND ND	65.0 ND ND ND	270.0 ND ND ND	85.0 ND ND ND	220.0 ND ND ND	110.0 40.0	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	28.0 ND ND ND	16.0 ND ND ND	31.5 ND ND ND	11.8 ND ND ND	12.0 ND ND ND	11.3 ND ND ND	15.4 ND ND ND	ND ND ND ND	5.5 ND ND ND	11.8 ND ND ND	12.8 ND ND ND	30.0 ND ND ND	16.9	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	NO DISCHARGE	
SS	40.0 MG/L	NO DISCHARGE	
TP	NA	NO DISCHARGE	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CASIMIR J.A.
 PLANT : ST CHARLES LAGOON
 WORKS NUMBER : 110002256
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.54 (1000 M3)

REGION : NORTHEAST
 DISTRICT : SUDBURY DIST.
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MCPHERSON CREEK W.BRANCH
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 280

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.19	0.12	0.58	0.94	0.45	0.38	0.22	0.20	0.16	0.14	0.15	0.14	0.31	
LAGOON DISCHARGE	ND	ND	ND	51.50	ND	ND	ND	ND	ND	ND	ND	ND	51.50	
BOD5	ND	150.0	140.0	35.0	69.0	113.0	177.0	ND	110.0	104.0	94.0	263.0	125.5	
INFLUENT (MG/L)	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	1.2	
EFFLUENT (MG/L)	ND	ND	ND	1.12	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	1.12	ND	ND	ND	ND	ND	ND	ND	ND	0.37	
LOADING (KG/D)														
SUSPENDED SOLIDS	ND	120.0	130.0	40.0	62.0	73.0	95.0	ND	62.0	83.0	115.0	160.0	94.0	
INFLUENT (MG/L)	ND	ND	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	5.4	
EFFLUENT (MG/L)	ND	ND	ND	5.07	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	5.07	ND	ND	ND	ND	ND	ND	ND	ND	1.67	
LOADING (KG/D)														
TOTAL PHOSPHOROUS	ND	7.6	7.7	2.1	4.1	6.1	7.1	ND	5.8	5.7	4.8	8.7	6.0	
INFLUENT (MG/L)	ND	ND	ND	1.1*	ND	ND	ND	ND	ND	ND	ND	ND	1.1	
EFFLUENT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	1.03	ND	ND	ND	ND	ND	ND	ND	ND	0.34	
LOADING (KG/D)														

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES
 EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED

START DATE 1989/04
 END DATE 1989/04
 ANTICIPATED COMPLIANCE

REGION	:	NORTHEAST
DISTRICT	:	SUDBURY DIST.
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	NEBASKASH
MINOR BASIN	:	JAMES BAY
MAJOR BASIN	:	ARCTIC WATERSHED
POPULATION SERVED	:	2,450

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: CHAPLEAU
: CHAPLEAU LAGOON
: 110002149
: AERATED LAGOON
: CONTINUOUS DISCHARGE
: SERIES OPERATION
: 4.54 (1000 M3)
DESIGN CAPACITY

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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)														
LAGOON DISCHARGE	2.53 78.34	3.22 90.02	3.52 109.27	3.88 116.31	4.26 80.84	3.01 90.31	2.43 75.46	2.28 70.77	2.11 63.17	2.14 66.40	2.45 73.59	2.91 90.08	2.90 83.71	
BOD5														
INFLUENT (MG/L)	32.5	70.0	149.0	39.0	45.0	69.0	52.0	68.0	50.0	135.0	124.0	32.0	72.1	
EFFLUENT (MG/L)	31.5	25.0	9.0	11.2	27.5	18.0	21.0	7.9	18.0	21.0	13.8	22.5	18.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	79.69	80.50	31.68	43.45	117.15	54.18	51.03	18.01	37.98	44.94	33.81	65.47	54.81	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	47.5	160.0	167.0	57.0	90.0	125.0	290.0	142.5	58.0	139.0	145.0	30.0	120.9	
EFFLUENT (MG/L)	72.5	15.0	17.5	12.5	37.5	20.0	30.0	22.5	37.5	42.5	22.5	17.5	29.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	183.42	48.30	61.60	48.50	159.75	60.20	72.90	51.30	79.12	90.95	55.12	50.92	84.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	2.0	2.8	2.4	1.9	1.6	1.7	1.6	2.5	3.5	2.9	1.7	2.2	
EFFLUENT (MG/L)	1.8	1.3	1.3	0.8	1.1	0.6	0.7	0.7	1.0	1.1	1.3	1.4	1.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.55	4.18	4.57	3.10	4.68	1.80	1.70	1.59	2.11	2.35	3.18	4.07	3.19	

BOD - ASSESSED ANNUALLY
 SSS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES
 ND - NO DATA
 NA - NOT APPLICABLE

<u>PARAM</u>	<u>CRITERIA</u>	<u>COMPLIES</u> <u>WITH CONC</u>
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: COCHRANE
: COCHRANE WPCP
: 120000355
: EXTENDED AERATION
: EFFLUENT POLISHING

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LILLABELLE LAKE
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 4,600

DESIGN CAPACITY : 3.41 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.66	2.64	2.88	4.07	3.82	2.60	2.74	2.70	2.88	ND	5.27	3.69	3.27	
BODS														
INFLUENT (MG/L)	ND	92.0	73.0	88.0	48.0	69.0	95.0	ND	ND	89.0	ND	150.0	88.0	
EFFLUENT (MG/L)	ND	80.0	95.5	58.0	47.0	27.8	15.0	ND	ND	33.5	ND	113.0	58.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	211.20	275.04	236.06	179.54	72.28	41.10	ND	ND	ND	ND	416.97	191.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	130.0	100.0	115.0	85.0	98.0	75.0	ND	ND	205.0	ND	190.0	124.8	
EFFLUENT (MG/L)	ND	360.0	272.5	135.0	95.0	42.5	65.0	ND	ND	102.5	ND	220.0	161.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	950.40	784.80	549.45	362.90	110.50	178.10	ND	ND	ND	ND	811.80	528.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	4.7	4.1	3.8	3.0	4.6	5.4	ND	ND	5.8	ND	5.8	4.7	
EFFLUENT (MG/L)	ND	7.8	5.3	3.3	1.9	3.1	2.9	ND	ND	6.5	ND	3.9	4.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	20.59	15.26	13.43	7.25	8.06	7.94	ND	ND	ND	ND	14.39	14.06	

SUMMARY

COMPLIES
WITH CONC
PARM CRITERIA
BOD 25.0 MG/L INSUFFICIENT DATA
SS 25.0 MG/L INSUFFICIENT DATA
TP NA INSUFFICIENT DATA

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY

START DATE END DATE ANTICIPATED
COMPLIANCE

1991 1992
1991 1992

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COSBY M.M.
 PLANT : NOELVILLE LAGOON
 WORKS NUMBER : 110002425
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.79 (1000 M3)

REGION : NORTHEAST
 DISTRICT : SUDBURY DIST.
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : WOLF RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 551

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.24	0.37	0.28	0.37	0.30	0.20	0.18	0.17	0.16	0.18	0.19	0.24	
LAGOON DISCHARGE	ND	ND	ND	70.50	ND	ND	ND	ND	ND	ND	ND	ND	70.50	
BOD5														
INFLUENT (MG/L)	196.0	208.0	46.0	129.0	108.0	90.0	137.0	170.0	175.0	141.0	142.0	233.0	147.9	
EFFLUENT (MG/L)	ND	ND	ND	7.3	ND	ND	ND	ND	ND	ND	ND	ND	7.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	2.04	ND	ND	ND	ND	ND	ND	ND	ND	1.75	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	130.0	320.0	111.0	185.0	193.0	275.0	108.0	115.0	332.0	155.0	210.0	185.0	193.3	
EFFLUENT (MG/L)	ND	ND	ND	20.0	ND	ND	ND	ND	ND	ND	ND	ND	20.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	5.60	ND	ND	ND	ND	ND	ND	ND	ND	4.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	9.5	3.5	7.1	5.0	4.5	5.6	6.8	7.3	7.2	6.2	10.0	6.5	
EFFLUENT (MG/L)	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	1.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	0.34	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: DUBREUILVILLE
: DUBREUILVILLE LAGOON IN OP. 1987
: 110001970
: EXFILTRATION LAGOON

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC. TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,000

DESIGN CAPACITY : 0.59 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.37	0.36	0.39	0.40	0.35	0.35	0.29	0.33	0.31	0.36	0.38	0.36	0.35	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	220.0	425.0	94.0	35.0	40.0	55.0	160.0	18.0	321.0	ND	ND	ND	152.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	480.0	97.0	35.0	20.0	75.0	70.0	25.0	942.0	ND	ND	ND	207.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	6.3	7.3	4.6	4.7	5.2	10.4	8.6	7.2	ND	ND	ND	6.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: ELLIOT LAKE
: ESTEN LAKE WPCP
: 120001121
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
: 13.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ESTEN LAKE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 19,000

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	6.19	11.34	7.21	ND	6.70	6.80	6.04	5.84	6.41	5.14	6.85	
BOD5														
INFLUENT (MG/L)	ND	ND	38.0	29.0	54.0	ND	42.0	44.0	80.0	96.0	56.0	82.0	57.9	
EFFLUENT (MG/L)	ND	ND	6.6	4.4	8.0	ND	39.0	29.0	22.1	740.0	23.0	6.5	97.6*	
CONCENTRATION LIMIT (MG/L)	ND	ND	40.85	49.89	57.68	ND	261.30	197.20	133.48	4321.60	147.43	33.41	25.0	
LOADING (KG/D)													668.56	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	86.0	37.0	49.0	ND	43.0	62.0	112.0	114.0	106.0	95.0	78.2	
EFFLUENT (MG/L)	ND	ND	18.0	10.0	9.0	ND	5.0	13.3	17.4	12.2	10.4	18.0	12.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	111.42	113.40	64.89	ND	33.50	90.44	105.09	71.24	66.66	92.52	25.0	
LOADING (KG/D)													86.31	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	4.0	2.6	3.4	ND	2.9	3.5	4.3	3.5	2.9	3.4	3.4	
EFFLUENT (MG/L)	ND	ND	0.9	0.6	0.9	ND	0.5	0.8	1.0	0.8	0.6	0.9	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	5.57	6.80	6.48	ND	3.35	5.44	6.04	4.67	3.84	4.62	5.48	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	NO	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ENGLEHART LAGOON
 PLANT : ENGLEHART LAGOON
 WORKS NUMBER : 110000187
 TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 0.90 (1000 M3)

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ENGLEHART RIVER
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,730

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.16	1.16	1.44	3.40	2.91	2.86	1.70	1.15	1.21	1.26	1.64	1.17	1.76	
LAGOON DISCHARGE	35.80	32.54	44.70	101.78	90.20	85.80	52.00	43.86	36.36	39.10	49.24	49.20	55.05	
BOD5														
INFLUENT (MG/L)	149.0	138.0	84.0	45.0	31.0	50.0	58.0	67.0	84.0	83.0	73.0	148.0	84.2	
EFFLUENT (MG/L)	6.6	9.1	13.5	11.2	8.3	3.4	2.1	2.1	2.9	2.1	1.4	5.5	5.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	7.65	10.55	19.44	38.08	24.15	9.72	3.57	2.41	3.50	2.64	2.29	6.43	10.03	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	210.0	240.0	140.0	157.0	106.0	85.0	87.0	92.0	95.0	165.0	150.0	150.0	139.8	
EFFLUENT (MG/L)	35.0	32.5	32.5	27.5	26.3	14.5	12.5	3.6	2.5	3.5	4.3	2.0	16.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	40.60	37.70	46.80	93.50	76.53	41.47	21.25	4.14	3.02	4.41	7.05	2.34	28.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	30.4	6.1	4.1	1.8	1.9	2.5	3.5	ND	4.2	4.7	5.3	4.1	6.2	
EFFLUENT (MG/L)	0.6	1.1*	1.4*	0.9	0.2	0.2	0.5	0.5	0.9	0.5	0.2	0.3	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.69	1.27	2.01	3.06	0.58	0.57	0.85	0.57	1.08	0.63	0.32	0.35	1.06	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 30.0 MG/L	YES
SS 40.0 MG/L	YES
TP 1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED

START DATE _____ END DATE _____
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESPANOLA : REGION : NORTHEAST
 PLANT : ESPANOLA WPCP : DISTRICT : SUDBURY DIST.
 WORKS NUMBER : 110000212 : OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : PRIMARY : WATERCOURSE : SPANISH RIVER
 : : MINOR BASIN : HURON
 : : MAJOR BASIN : GREAT LAKES
 : : POPULATION SERVED : 5,200
 DESIGN CAPACITY : 3.00 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.66	2.64	2.96	2.72	2.63	2.80	2.66	2.62	2.77	2.64	2.79	2.65	2.71	
BOD5														
INFLUENT (MG/L)	82.0	90.0	93.0	60.0	61.0	54.0	89.0	59.0	51.0	60.0	68.0	125.0	74.3	
EFFLUENT (MG/L)	54.0	58.5	50.0	40.0	34.0	31.5	59.0	26.7	38.5	25.5	43.5	90.0	45.9	
LOADING (KG/D)	143.64	154.44	148.00	108.80	89.42	88.20	156.94	69.95	106.64	67.32	121.36	238.50	124.39	
PERCENT REMOVAL	34	35	46	33	44	42	34	55	25	58	36	28	38	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	120.0	100.0	105.0	130.0	68.0	73.0	60.0	37.0	73.0	95.0	130.0	91.8	
EFFLUENT (MG/L)	65.0	52.5	65.0	52.5	52.5	42.5	32.5	35.0	27.5	37.5	42.5	70.0	47.9	
LOADING (KG/D)	172.90	138.60	192.40	142.80	138.07	119.00	86.45	91.70	76.17	99.00	118.57	185.50	129.81	
PERCENT REMOVAL	41	56	35	50	60	38	55	42	26	49	55	46	48	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	5.1	4.3	4.8	5.5	3.6	6.1	7.9	5.4	5.2	5.5	5.8	5.4	
EFFLUENT (MG/L)	5.5	5.0	5.3	4.5	6.6	5.7	5.2	5.2	4.4	4.4	ND	7.2	5.4	
CONCENTRATION LIMIT (MG/L)	14.63	13.20	15.68	12.24	17.35	15.96	13.83	13.62	12.18	11.61	ND	19.08	14.63	
LOADING (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30%	YES	
SS	50%	NO	
TP	NA	NA	

REMEDIAL MEASURES
 SLUDGE DISPOSAL/REMOVAL - SLUDGE QUALITY BEING IMPROVED

START DATE END DATE COMPLIANCE
 ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FAUQUIER-STICKLAND
 PLANT : FAUQUIER LAGOON
 WORKS NUMBER : 110001792
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.27 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : GROUNDHOG RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 650

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	0.43	0.30	ND	ND	ND	0.37	
LAGOON DISCHARGE	ND	ND	ND	ND	48.60	ND	ND	ND	ND	ND	ND	ND	48.60	
BOD5														
INFLUENT (MG/L)	ND	440.0	190.0	48.0	ND	78.0	60.0	75.0	130.0	ND	ND	ND	145.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	5.9	ND	ND	ND	7.5	ND	ND	ND	6.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	2.25	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	2.25	ND	ND	ND	2.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	270.0	590.0	160.0	ND	80.0	75.0	110.0	70.0	ND	ND	ND	193.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	8.3	ND	ND	ND	25.0	ND	ND	ND	16.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	7.50	ND	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	7.50	ND	ND	ND	6.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	5.0	4.1	3.4	ND	3.0	3.8	5.7	4.2	ND	ND	ND	4.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.7	ND	ND	ND	0.4	ND	ND	ND	0.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	ND	0.22	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	ND	0.22	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GORE BAY
 PLANT : GORE BAY LAGOON
 WORKS NUMBER : 110002513
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.63 (1000 M3)

REGION : NORTHEAST
 DISTRICT : MANITOULIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE HURON
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 780

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.48	0.37	0.60	0.79	0.38	0.41	0.37	0.37	0.38	0.32	0.43	0.37	0.44	
LAGOON DISCHARGE	ND	ND	ND	ND	133.92	ND	ND	ND	ND	ND	33.48	ND	83.70	
BOD5	21.0	62.0	106.0	10.0	85.0	65.0	175.0	110.0	210.0	120.0	65.0	127.0	96.3	
INFLUENT (MG/L)														
EFFLUENT (MG/L)	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	4.1	ND	6.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	2.96	ND	ND	ND	ND	ND	1.76	ND	2.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	20.0	65.0	65.0	20.0	60.0	50.0	100.0	70.0	70.0	60.0	58.0	140.0	64.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	23.4	ND	ND	ND	ND	ND	0.1	ND	11.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	8.89	ND	ND	ND	ND	ND	0.04	ND	5.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.4	6.2	2.7	0.9	14.7	3.6	6.8	6.0	9.8	8.0	4.6	7.1	6.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.72	ND	ND	ND	ND	ND	ND	ND	0.84	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAILEYBURY
 PLANT : LAKE TEMISKAMING NEW WPCP
 WORKS NUMBER : 110002158
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 1.60 (1000 M3)

REGION : NORTHEAST
 DISTRICT : TEMISKAMING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE TEMISKAMING
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED :
 :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.38	1.32	1.55	1.87	1.68	1.75	1.24	1.33	1.33	1.28	1.50	1.41	1.47	
BOD5														
INFLUENT (MG/L)	59.0	9.0	98.0	51.0	24.0	74.0	64.0	26.0	89.0	153.0	70.0	26.0	61.9	
EFFLUENT (MG/L)	3.2	3.0	6.9	2.0	2.5	1.0	1.3	1.5	1.5	2.6	2.0	6.0	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.41	3.96	10.69	3.74	4.20	1.75	1.61	1.99	1.99	3.32	3.00	8.46	4.12	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.0	47.0	71.0	77.0	83.0	131.0	71.7	45.0	84.0	67.0	72.0	93.0	75.6	
EFFLUENT (MG/L)	12.4	14.4	28.0	11.4	14.2	6.8	12.3	7.0	4.6	15.0	10.2	6.5	11.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.11	19.00	43.40	21.31	23.85	11.90	15.25	9.31	6.11	19.20	15.30	9.16	17.49	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	1.6	2.0	2.4	3.2	3.4	ND	2.1	2.3	ND	6.1	2.2	2.9	
EFFLUENT (MG/L)	0.2	0.3	1.2*	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.1	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.27	0.39	1.86	0.37	0.16	0.17	0.24	0.39	0.26	0.25	0.45	0.14	0.44	
														1

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED

START DATE : 1990/01
 END DATE :
 ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : HAILEYBURY
 PLANT : LAKE TEMISKAMING OLD WPCP
 WORKS NUMBER : 110000310
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 : 1.59 (1000 M3)

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE TEMISKAMING
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,240

DESIGN CAPACITY :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.31	1.26	1.54	2.19	2.07	2.02	1.50	1.54	1.46	1.39	1.62	1.37	1.61	
BOD5														
INFLUENT (MG/L)	ND	70.0	98.0	51.0	24.0	74.0	64.0	26.0	89.0	153.0	70.0	26.0	67.7	
EFFLUENT (MG/L)	ND	3.4	6.9	1.6	1.7	9.0	2.4	1.3	1.7	0.6	3.0	4.2	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	4.28	10.62	3.50	3.51	18.18	3.60	2.00	2.48	1.11	4.86	5.75	5.31	
LOADING LIMIT (KG/D)													68.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	81.0	60.0	71.0	77.0	83.0	131.0	61.0	60.0	83.0	67.0	72.0	93.0	78.3	
EFFLUENT (MG/L)	11.3	5.5	28.7	11.7	13.0	6.0	6.6	7.7	5.5	8.5	7.8	11.8	10.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.80	6.93	44.19	25.62	26.91	12.12	9.90	11.85	8.03	11.81	12.63	16.16	16.58	
LOADING LIMIT (KG/D)													68.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	4.7	2.0	2.4	3.2	4.8	3.8	2.1	2.3	ND	6.1	1.4	3.3	
EFFLUENT (MG/L)	0.1	0.3	1.1	0.2	0.1	0.2	0.6	0.2	0.1	0.2	0.8	0.3	0.4	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.13	0.37	1.69	0.43	0.20	0.40	0.90	0.30	0.14	0.27	1.29	0.41	0.64	
LOADING LIMIT (KG/D)													2.70	

SUMMARY			
PARAM	CRITERIA	LOADING	COMPLIES WITH CONC
BOD	25.0 MG/L	68.20 KG/D	YES
SS	25.0 MG/L	68.20 KG/D	YES
TP	1.0 MG/L	2.70 KG/D	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED

START DATE : 1990/01
 END DATE :
 COMPLIANCE : ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HAILEYBURY
: LAKE TEMISKAMING OLD WPCP
: 110000310
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : NORTHEAST
DISTRICT : TEMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE TEMISKAMING
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,240

DESIGN CAPACITY

: 1.59 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.31	1.26	1.54	2.19	2.07	2.02	1.50	1.54	1.46	1.39	1.62	1.37	1.61	
BOD5														
INFLUENT (MG/L)	ND	70.0	98.0	51.0	24.0	74.0	64.0	26.0	89.0	153.0	70.0	26.0	67.7	
EFFLUENT (MG/L)	ND	3.4	6.9	1.6	1.7	9.0	2.4	1.3	1.7	0.8	3.0	4.2	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	4.28	10.62	3.50	3.51	18.18	3.60	2.00	2.48	1.11	4.86	5.75	5.31	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	81.0	60.0	71.0	77.0	83.0	131.0	61.0	60.0	83.0	67.0	72.0	93.0	78.3	
EFFLUENT (MG/L)	11.3	5.5	28.7	11.7	13.0	6.0	6.6	7.7	5.5	8.5	7.8	11.8	10.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.80	6.93	44.19	25.62	26.91	12.12	9.90	11.85	8.03	11.81	12.63	16.16	16.58	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	ND	4.7	2.0	2.4	3.2	4.8	3.8	2.1	2.3	ND	6.1	1.4	3.3	
EFFLUENT (MG/L)	0.1	0.3	1.1*	0.2	0.1	0.2	0.6	0.2	0.1	0.2	0.8	0.3	0.4	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.64	
LOADING (KG/D)	0.13	0.37	1.69	0.43	0.20	0.40	0.90	0.30	0.14	0.27	1.29	0.41	0.64	

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED

START DATE 1990/01
END DATE
COMPLIANCE

ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAILEYBURY
 PLANT : NORTH COBALT LAGOON
 WORKS NUMBER : 110001382
 TREATMENT : AERATED CELL PLUS LAGOON
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 0.34 (1000 M3)

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : FARR CREEK
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.31	0.32	0.49	0.85	0.90	0.73	0.36	0.40	0.45	ND	0.51	0.30	0.51	
LAGOON DISCHARGE	9.59	8.94	15.23	25.34	59.28	ND	2.82	12.29	13.55	ND	ND	ND	18.38	
BOD5														
INFLUENT (MG/L)	119.0	120.5	126.5	69.0	41.0	107.0	107.0	90.0	143.0	ND	82.0	135.0	103.6	
EFFLUENT (MG/L)	ND	ND	57.0	15.8	17.4	ND	13.0	11.0	15.0	ND	ND	ND	21.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	27.93	13.43	15.66	ND	4.68	4.40	6.75	ND	ND	ND	10.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	97.5	155.0	130.0	93.0	29.0	47.0	95.0	87.0	ND	65.0	135.0	94.4	
EFFLUENT (MG/L)	ND	ND	15.0	67.5	18.8	ND	20.0	15.0	42.5	ND	ND	ND	29.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	7.35	57.37	16.92	ND	7.20	6.00	19.12	ND	ND	ND	15.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	6.7	8.8	4.1	3.1	3.7	6.2	5.2	6.7	ND	3.1	4.3	5.2	
EFFLUENT (MG/L)	ND	ND	5.7*	1.5*	2.1*	ND	0.8	2.1*	2.0*	ND	ND	ND	2.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	2.79	1.27	1.89	ND	0.28	0.84	0.90	ND	ND	ND	1.22	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HALLEBOURG
: HALLEBOURG LAGOON
: 12002031
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY

: 24.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE MCILWROTH
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 260

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	8.28	ND	ND	ND	ND	8.28	ND	ND	8.28	
BOD5														
INFLUENT (MG/L)	315.0	275.0	255.0	260.0	255.0	140.0	265.0	170.0	220.0	ND	ND	155.0	231.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.8	ND	ND	ND	ND	1.3	ND	ND	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	260.0	340.0	250.0	230.0	180.0	150.0	100.0	220.0	230.0	ND	ND	130.0	209.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	3.0	ND	ND	ND	ND	4.0	ND	ND	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.0	13.0	13.0	8.4	11.4	5.7	8.3	11.8	7.3	ND	ND	9.2	10.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.5	ND	ND	ND	ND	0.8	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES RE. JRTD

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HEARST
 PLANT : CECILE TRAILER PARK LAGOON
 WORKS NUMBER : 120001997
 TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MATTAWISKIA
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 140

DESIGN CAPACITY : 0.07 (1000 M3) CONTINUOUS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND ND	ND ND	0.02 ND	0.01 ND	0.01 ND	0.01 ND	0.02 ND	0.02 ND	0.02 ND	0.02	
BOD5 INFLUENT (MG/L)	ND	200.0	ND	64.0	70.0	96.0	130.0	ND	160.0	140.0	160.0	120.0	126.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	14.0	ND	ND	4.2	2.0	ND	ND	6.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	0.28	ND	ND	0.04	0.04	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	0.30	ND	ND	0.10	0.40	ND	ND	0.13	
SUSPENDED SOLIDS INFLUENT (MG/L)	ND	100.0	ND	55.0	60.0	85.0	65.0	ND	85.0	120.0	150.0	60.0	86.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	15.0	ND	ND	10.0	20.0	ND	ND	15.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	0.30	ND	ND	0.10	0.40	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	0.03	ND	ND	0.01	0.03	ND	ND	0.30	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	ND	10.0	ND	3.9	4.2	5.9	7.2	ND	7.5	17.0	7.7	4.1	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	1.7	ND	ND	1.9	1.9	ND	ND	1.8	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	0.03	ND	ND	0.01	0.03	ND	ND	0.04	
LOADING (KG/D)	ND	ND	ND	ND	ND	0.03	ND	ND	0.01	0.03	ND	ND	0.04	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: HEARST
: HEARST LAGOON
: 110000338
: AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: REGULATED DISCHARGE VOLUME
: 6.81 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MATTAWISHKWA RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 5,270

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.60	2.13	2.50	4.39	3.48	2.81	2.38	2.70	2.43	2.55	3.10	2.01	2.69	
LAGOON DISCHARGE	ND	ND	ND	ND	873.66	ND	ND	ND	ND	110.76	105.39	ND	363.27	
BOD5														
INFLUENT (MG/L)	122.0	76.0	72.0	95.0	48.0	94.0	68.0	43.0	101.0	55.0	101.0	145.0	85.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	17.3	ND	ND	ND	ND	1.4	ND	ND	9.4	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	60.20	ND	ND	ND	ND	3.57	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	60.20	ND	ND	ND	ND	3.57	ND	ND	25.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	96.0	68.0	65.0	293.0	47.0	106.0	40.0	210.0	95.0	120.0	235.0	670.0	170.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	42.5	ND	ND	ND	ND	3.2	ND	ND	22.9	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	147.90	ND	ND	ND	ND	8.16	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	147.90	ND	ND	ND	ND	8.16	ND	ND	61.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	4.6	4.6	4.8	2.8	4.4	5.1	3.0	4.3	3.1	2.6	5.0	4.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.4	ND	ND	ND	ND	1.1	1.6	ND	1.7	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	8.35	ND	ND	ND	ND	2.80	4.96	ND	4.57	
LOADING (KG/D)	ND	ND	ND	ND	8.35	ND	ND	ND	ND	2.80	4.96	ND	4.57	

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HORNEPAYNE
 PLANT : HORNEPAYNE WPCP
 WORKS NUMBER : 110001952
 TREATMENT : EXTENDED AERATION
 DESIGN CAPACITY : 1.36 (1000 M3)
 REGION : NORTHEAST
 DISTRICT : ALGOMA
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : JACKFISH RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 1,675

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.77	0.68	0.98	1.45	1.28	0.90	0.80	1.23	0.78	0.90	1.17	0.77	0.98	
BOD5														
INFLUENT (MG/L)	77.0	113.0	80.0	52.0	59.0	54.0	62.0	50.0	63.0	71.0	32.0	121.0	69.5	
EFFLUENT (MG/L)	8.7	3.5	5.4	8.5	2.0	23.4	0.9	1.7	4.6	3.0	3.1	5.0	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.69	2.38	5.29	12.32	2.56	21.06	0.72	2.09	3.58	2.70	3.62	3.85	5.68	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	130.0	83.0	48.0	48.0	48.0	35.0	35.0	47.5	73.0	55.0	73.0	64.2	
EFFLUENT (MG/L)	8.5	8.5	15.0	15.0	4.0	18.0	4.5	4.0	7.0	5.4	10.0	17.5	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.54	5.78	14.70	21.75	5.12	16.20	3.60	4.92	5.46	4.86	11.70	13.47	9.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	5.0	4.9	2.6	2.8	3.7	2.4	3.0	3.9	5.2	2.3	4.1	3.7	
EFFLUENT (MG/L)	2.8	2.8	1.7	1.5	1.4	3.4	1.4	2.2	0.7	1.1	1.3	2.5	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.15	1.90	1.66	2.17	1.79	3.06	1.12	2.70	0.54	0.99	1.52	1.92	1.86	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	IROQUOIS FALLS	
PLANT	:	IROQUOIS FALLS	WPCP
WORKS NUMBER	:	110002121	
TREATMENT	:	CONTACT STABILIZATION	
	:		
DESIGN CAPACITY	:		4.09 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ABITIBI RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 5,575

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.64	2.54	2.94	5.29	4.13	3.74	3.04	3.25	2.92	3.02	3.70	2.88	3.34	
BOD5														
INFLUENT (MG/L)	130.0	101.0	97.0	50.0	40.0	49.0	25.0	41.0	77.0	104.0	45.0	69.0	69.0	
EFFLUENT (MG/L)	14.0	18.0	18.5	12.1	30.5	27.5	19.0	30.5	22.0	32.5	16.5	19.0	21.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	36.96	45.72	54.39	64.00	125.96	102.85	57.76	99.12	64.24	98.15	61.05	54.72	72.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	135.0	83.0	78.0	44.0	62.0	63.0	39.0	70.7	104.3	88.0	63.0	56.0	73.8	
EFFLUENT (MG/L)	6.5	7.7	6.6	5.0	7.3	7.3	6.3	8.7	5.0	5.8	8.4	13.4	7.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.16	19.55	19.40	26.45	30.14	27.30	19.15	28.27	14.60	17.51	31.08	38.59	24.38	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	5.5	8.2	2.8	3.4	3.9	3.2	5.0	4.3	3.1	3.0	3.8	4.3	
EFFLUENT (MG/L)	ND	2.7	3.1	1.6	1.6	1.2	ND	7.3	2.8	2.5	ND	2.2	2.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	6.85	9.11	8.46	6.60	4.48	ND	23.72	8.17	7.55	ND	6.33	9.35	

<u>PARAM</u>	<u>CRITERIA</u>	<u>COMPLIES WITH CONC</u>
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 NH - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : IROQUOIS FALLS
 PLANT : PORQUOIS JUNCTION LAGOON
 WORKS NUMBER : 120003290
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : SINGE CELL
 :
 DESIGN CAPACITY : 0.04 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : STATION CR. TO MEADOW CR.
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 176

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.05	0.05	0.07	0.14	0.13	0.11	0.08	0.09	0.07	0.08	0.10	0.06	0.09	
LAGOON DISCHARGE	ND	ND	ND	ND	20.00	ND	ND	ND	ND	ND	ND	ND	6.67	
BOD5														
INFLUENT (MG/L)	142.0	160.0	69.0	16.0	31.0	47.0	78.0	108.0	77.0	88.0	118.0	159.0	91.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	11.7	ND	ND	ND	ND	ND	ND	ND	11.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	1.52	ND	ND	ND	ND	ND	ND	ND	1.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	225.0	85.0	77.0	100.0	45.0	38.0	20.0	120.0	95.0	88.0	110.0	120.0	93.6	
EFFLUENT (MG/L)	ND	ND	4.5	4.5	10.0	3.0	ND	ND	ND	ND	ND	ND	5.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	0.31	0.63	1.30	0.33	ND	ND	ND	ND	ND	ND	0.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	5.0	5.0	1.2	2.6	3.1	3.4	5.9	5.8	5.2	3.9	6.5	4.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	1.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	0.14	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURE REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: JOGUES
: JOGUES LAGOON
: 120002022
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
:
DESIGN CAPACITY : 27.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PRUNE CREEK
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 215

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	225.0	180.0	220.0	138.0	185.0	88.0	165.0	226.0	ND	175.0	302.0	185.0	189.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	60.0	140.0	210.0	160.0	75.0	150.0	110.0	ND	95.0	190.0	170.0	131.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.0	13.0	13.0	7.2	6.5	5.2	6.7	8.7	ND	8.5	8.5	8.8	8.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY COMPLIES
WITH CONC
PARAM CRITERIA
BOD 25.0 MG/L NO DISCHARGE
SS 25.0 MG/L NO DISCHARGE
TP 1.0 MG/L NO DISCHARGE

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KAPUSKASING
 PLANT : KAPUSKASING WEST END WPCP
 WORKS NUMBER : 120002059
 TREATMENT : EXTENDED AERATION
 DESIGN CAPACITY : 0.68 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : KAPUSKASING RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARAM	CRITERIA	NA	WITH CONC
BOD	25.0 MG/L	NA	NO DISCHARGE
SS	25.0 MG/L	NA	NO DISCHARGE
TP	NA	NA	NO DISCHARGE

NOTE:
 BOD - HAS NO CRITERIA
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KAPUSKASING
 PLANT : KAPUSKASING WPCP
 WORKS NUMBER : 110003004
 TREATMENT : EXTENDED AERATION
 :
 DESIGN CAPACITY : 9.09 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : KAPUSKASING RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 12,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.28	5.24	6.24	10.57	10.55	7.47	6.11	6.29	5.55	6.12	7.27	5.08	6.81	
BOD5														
INFLUENT (MG/L)	150.0	133.0	170.0	50.0	51.0	54.0	104.5	117.8	113.6	84.0	87.0	66.0	98.4	
EFFLUENT (MG/L)	15.5	9.3	6.1	8.3	3.5	6.3	4.1	6.3	7.9	29.0	4.9	3.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	81.84	48.73	38.06	87.73	36.92	47.06	25.05	39.62	43.84	177.48	35.62	15.24	59.25	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	121.0	258.0	220.0	79.0	83.0	73.0	110.7	99.5	190.0	96.0	83.0	127.0	
EFFLUENT (MG/L)	10.8	15.2	9.3	5.3	4.5	4.0	4.3	4.6	6.3	5.6	7.9	13.3	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	57.02	79.64	58.03	56.02	47.47	29.88	26.27	28.93	34.96	34.27	57.43	67.56	51.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	4.8	ND	2.6	3.6	3.0	3.1	7.2	3.5	4.8	4.5	3.8	4.1	
EFFLUENT (MG/L)	ND	2.2	0.7	0.4	1.0	1.7	2.0	1.6	1.5	2.4	2.0	6.6	2.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	11.52	4.36	4.22	10.55	12.69	12.22	10.06	8.32	14.68	14.54	33.52	13.62	

SUMMARY COMPLIES
 PARAM CRITERIA WITH CONC
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP NA NA

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KIRKLAND LAKE
 PLANT : KIRKLAND LAKE WPCP
 WORKS NUMBER : 120000015
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 13.63 (1000 M3)

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MURDOCK CREEK
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 12,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	11.39	10.98	12.88	19.57	15.36	11.12	9.32	9.34	7.26	8.84	10.96	11.77	11.57	
BOD5 INFLUENT (MG/L)	41.0	50.0	49.0	26.0	33.0	38.0	14.0	60.3	50.0	50.0	38.0	31.0	40.0	
EFFLUENT (MG/L)	5.4	12.0	7.0	4.5	6.7	8.8	5.5	2.3	5.0	6.9	14.6	4.0	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	61.50	131.76	90.16	88.06	102.91	97.85	51.26	21.48	36.30	60.99	160.01	47.08	79.83	
SUSPENDED SOLIDS INFLUENT (MG/L)	66.0	65.0	56.0	37.0	39.0	61.0	43.6	77.0	67.0	91.0	63.0	46.0	59.3	
EFFLUENT (MG/L)	25.2	20.4	22.0	18.6	14.6	9.8	7.6	9.6	12.5	13.0	12.1	17.0	15.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	287.02	223.99	283.36	364.00	224.25	108.97	70.83	89.66	90.75	114.92	132.61	200.09	175.86	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	3.0	3.2	2.8	2.2	2.4	3.2	3.0	3.5	4.7	3.8	3.1	2.6	3.1	
EFFLUENT (MG/L)	0.9	1.3	1.1	0.5	0.5	0.4	0.6	0.9	1.2	0.8	0.5	0.6	0.8	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	10.25	14.27	14.16	9.78	7.68	4.44	5.59	8.40	8.71	7.07	5.48	7.06	9.26	

SUMMARY
 COMPLIES WITH CONC
 PARM CRITERIA YES
 BOD 25.0 MG/L YES
 SS 25.0 MG/L YES
 TP 1.0 MG/L NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

START DATE END DATE COMPLIANCE

ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KIRKLAND LAKE
 PLANT : SWASTIKA WPCP
 WORKS NUMBER : 120001942
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : OTTO LAKE
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 700

DESIGN CAPACITY : 0.39 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	82.0	ND	40.0	26.0	38.0	56.0	74.0	92.0	108.0	100.0	70.0	70.0	68.7	
EFFLUENT (MG/L)	7.8	ND	3.5	3.6	2.1	2.4	2.8	2.3	3.4	2.8	3.6	15.0	4.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	ND	85.0	40.0	60.0	40.0	45.0	60.0	110.0	100.0	90.0	55.0	70.9	
EFFLUENT (MG/L)	35.0	ND	15.0	15.0	15.0	20.0	15.5	10.0	10.0	10.0	15.0	20.0	16.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	ND	3.1	1.3	2.7	4.7	4.6	3.8	5.6	3.5	3.6	2.6	3.6	
EFFLUENT (MG/L)	1.1	ND	0.7	0.5	ND	1.0	0.6	0.6	1.0	ND	0.7	0.8	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT
ALBUQUERQUE	1	1	1
ALBUQUERQUE	2	2	2
ALBUQUERQUE	3	3	3
ALBUQUERQUE	4	4	4
ALBUQUERQUE	5	5	5
ALBUQUERQUE	6	6	6
ALBUQUERQUE	7	7	7
ALBUQUERQUE	8	8	8
ALBUQUERQUE	9	9	9
ALBUQUERQUE	10	10	10
ALBUQUERQUE	11	11	11
ALBUQUERQUE	12	12	12
ALBUQUERQUE	13	13	13
ALBUQUERQUE	14	14	14
ALBUQUERQUE	15	15	15
ALBUQUERQUE	16	16	16
ALBUQUERQUE	17	17	17
ALBUQUERQUE	18	18	18
ALBUQUERQUE	19	19	19
ALBUQUERQUE	20	20	20
ALBUQUERQUE	21	21	21
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ALBUQUERQUE	40	40	40
ALBUQUERQUE	41	41	41
ALBUQUERQUE	42	42	42
ALBUQUERQUE	43	43	43
ALBUQUERQUE	44	44	44
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ALBUQUERQUE	46	46	46
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ALBUQUERQUE	91	91	91
ALBUQUERQUE	92	92	92
ALBUQUERQUE	93	93	93
ALBUQUERQUE	94	94	94
ALBUQUERQUE	95	95	95
ALBUQUERQUE	96	96	96
ALBUQUERQUE	97	97	9

: LARDER LAKE
: LARDER LAKE TOWNSITE WPCP
: 120000033
: EXFILTRATION LAGOON

DESIGN CAPACITY

0.59 (1000 M3)

REGION	:	NORTHEAST
DISTRICT	:	TIMISKAMING
OPERATING AUTHORITY	:	MUNICIPAL
WATERCOURSE	:	LARDER LAKE
MINOR BASIN	:	OTTAWA RIVER
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,100

[illegible]

COMPLIES

PARAM	CRITERIA	COMPLIES
BOD	NA	WITH CONC
SS	NA	NO DIRECT
TP	NA	NO DIRECT
		DISCHARGE
		DISCHARGE
		DISCHARGE

NOTE:

BOD - HAS NO CRITERIA

SS - HAS NO CRITERIA

TP - HAS NO CRITERIA

- EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT
ALBUQUERQUE	1	1	1
ALBUQUERQUE	2	2	2
ALBUQUERQUE	3	3	3
ALBUQUERQUE	4	4	4
ALBUQUERQUE	5	5	5
ALBUQUERQUE	6	6	6
ALBUQUERQUE	7	7	7
ALBUQUERQUE	8	8	8
ALBUQUERQUE	9	9	9
ALBUQUERQUE	10	10	10
ALBUQUERQUE	11	11	11
ALBUQUERQUE	12	12	12
ALBUQUERQUE	13	13	13
ALBUQUERQUE	14	14	14
ALBUQUERQUE	15	15	15
ALBUQUERQUE	16	16	16
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ALBUQUERQUE	92	92	92
ALBUQUERQUE	93	93	93
ALBUQUERQUE	94	94	94
ALBUQUERQUE	95	95	95
ALBUQUERQUE	96	96	96
ALBUQUERQUE	97	97	9

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: LATCHFORD
: LATCHFORD WPCP
: 110001774
: EXTENDED AERATION

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DESIGN CAPACITY

0.34 (1000 M3)

REGION	:	NORTHEAST
DISTRICT	:	TIMISKAMING
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	MONTREAL RIVER
MINOR BASIN	:	OTTAWA RIVER
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	427

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.41	0.32	0.51	0.61	0.48	0.39	0.31	0.26	0.25	0.27	0.25	0.27	0.36	
BOD5														
INFLUENT (MG/L)	77.0	40.0	29.0	27.0	18.0	45.0	37.0	145.0	69.0	65.0	94.0	62.0	59.0	
EFFLUENT (MG/L)	6.0	11.2	4.8	5.0	7.9	3.8	1.7	2.9	1.5	7.2	22.0	2.0	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.46	3.58	2.44	3.05	3.79	1.48	0.52	0.75	0.37	1.94	5.50	0.54	2.27	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	45.0	45.0	37.0	30.0	82.0	87.5	495.0	47.5	265.0	75.0	30.0	114.9	
EFFLUENT (MG/L)	18.7	12.4	10.8	11.5	14.1	12.3	10.2	9.6	10.6	9.0	12.5	19.5	12.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.66	3.96	5.50	7.01	6.76	4.79	3.16	2.49	2.65	2.43	3.12	5.26	4.54	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	2.1	1.6	1.7	1.0	2.5	3.9	5.6	3.2	4.8	2.5	1.7	2.9	
EFFLUENT (MG/L)	0.9	3.0	0.4	0.4	0.5	0.5	0.4	0.3	0.6	1.1	1.1	1.2	0.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.36	0.96	0.20	0.24	0.24	0.19	0.12	0.07	0.15	0.29	0.27	0.32	0.32	

PARM CRITERIA COMPLIES WITH CONC

BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

- EXCEEDS EFFLUENT CRITERIA

") INDICATES A VALUE OF ZERO
SPACE (EG. ")

ND - NO DATA

ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LITTLE CURRENT LAGOON
 PLANT : LITTLE CURRENT LAGOON
 WORKS NUMBER : 110000392
 TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 0.92 (1000 M3)

REGION : NORTHEAST
 DISTRICT : MANITOULIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DITCH TO GEORGIAN BAY
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.82	0.88	1.48	1.72	0.86	0.72	0.66	0.66	0.58	0.64	0.80	ND	0.89	
LAGOON DISCHARGE	ND	ND	ND	ND	141.20	ND	ND	ND	ND	ND	154.00	ND	147.60	
BOD5														
INFLUENT (MG/L)	80.0	52.0	ND	ND	122.0	ND	ND	ND	116.0	95.0	ND	ND	93.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	21.9	ND	ND	ND	ND	ND	5.9	ND	13.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	18.83	ND	ND	ND	ND	ND	4.72	ND	12.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	100.0	ND	ND	70.0	ND	ND	ND	80.0	100.0	ND	ND	89.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	38.3	ND	ND	ND	ND	ND	5.8	ND	22.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	32.93	ND	ND	ND	ND	ND	4.64	ND	19.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	3.5	ND	ND	5.0	ND	ND	ND	6.8	5.8	ND	ND	5.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	3.5	ND	3.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	3.09	ND	ND	ND	ND	ND	2.80	ND	3.20	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 # - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY COMPLIES
 WITH CONC

PARAM CRITERIA
 BOD 30.0 MG/L YES
 SS 40.0 MG/L YES
 TP NA NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MATTAWA
PLANT : MATTAWA LAGOON
WORKS NUMBER : 110000436
TREATMENT : EXFILTRATION LAGOON

DESIGN CAPACITY : 1.09 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MATTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,686

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.73	1.54	1.45	1.54	1.59	1.57	1.20	ND	1.27	1.18	1.46	1.35	1.44	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	85.0	ND	ND	ND	ND	ND	ND	ND	85.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	45.0	ND	ND	ND	ND	ND	ND	ND	45.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	3.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	DISCHARGE
BOD	NA	NO DIRECT	DISCHARGE
SS	NA	NO DIRECT	DISCHARGE
TP	NA	NO DIRECT	DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
W - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MATTHEW VAL COTE
 PLANT : MATTHEW LAGOON
 WORKS NUMBER : 120001791
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.58 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MISSINABI RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.28	0.24	0.29	0.46	0.42	0.34	0.64	0.39	0.32	0.36	0.47	0.21	0.37	
LAGOON DISCHARGE	ND	ND	ND	ND	60.40	ND	ND	ND	ND	60.60	ND	ND	60.50	
BOD5														
INFLUENT (MG/L)	68.0	ND	ND	ND	172.0	ND	ND	34.0	34.0	66.0	ND	88.0	77.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	14.0	ND	ND	ND	ND	5.1	ND	ND	9.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	5.88	ND	ND	ND	ND	1.83	ND	ND	3.55	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	ND	ND	ND	90.0	ND	ND	40.0	40.0	110.0	ND	75.0	79.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	22.5	ND	ND	ND	ND	13.3	ND	ND	17.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	9.45	ND	ND	ND	ND	4.78	ND	ND	6.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	ND	ND	ND	3.9	ND	ND	4.2	4.2	4.6	ND	4.2	4.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.0	ND	ND	ND	ND	1.6	ND	ND	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.84	ND	ND	ND	ND	0.57	ND	ND	0.67	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MCGARRY
 PLANT : VIRGINIATOWN AND KEARNS WPCP
 WORKS NUMBER : 120000024
 TREATMENT : COMMUNAL SEPTIC TANK
 :
 :
 DESIGN CAPACITY : 0.72 (1000 M3)

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : TAILING PD TO LARDER L.
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	37.0	31.0	27.0	17.0	10.0	7.0	17.0	18.0	8.0	10.0	20.0	28.0	19.8	
EFFLUENT (MG/L)	19.0	17.0	21.0	8.0	14.0	6.5	14.0	18.0	21.0	8.5	15.0	25.0	15.6	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL	49	45	22	53	22	07	18	ND	ND	15	25	11	21*	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	50.0	40.0	55.0	35.0	15.0	25.0	9.0	25.0	7.0	15.0	20.0	35.0	27.6	
EFFLUENT (MG/L)	25.0	15.0	25.0	20.0	24.0	65.0	10.0	25.0	20.0	9.0	20.0	40.0	24.8	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL	50	63	55	43	ND	ND	ND	ND	ND	40	ND	ND	10*	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.6	1.6	1.8	1.4	0.9	1.0	0.5	2.0	0.8	0.8	1.2	1.8	1.3	
EFFLUENT (MG/L)	1.4	1.4	1.7	0.9	0.9	0.9	0.5	2.2	1.5	1.0	1.0	1.7	1.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)														

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 30%	NO
SS 50%	NO
TP NA	NA

NO REMEDIAL MEASURES REPORTED

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : MICHIGNICOTEN REGION : NORTHEAST
 PLANT : WAWA LAGOON DISTRICT : ALGOMA
 WORKS NUMBER : 110000454 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MAGPIE RIVER
 : PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : SUPERIOR
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 4.54 (1000 M3) POPULATION SERVED : 3,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.70	2.56	2.51	3.74	3.74	2.50	1.97	2.12	2.11	1.97	2.17	2.35	2.54	
LAGOON DISCHARGE	83.60	71.75	77.49	117.32	116.06	74.86	61.07	65.73	63.21	61.21	65.15	72.78	77.52	
BOD5														
INFLUENT (MG/L)	ND	60.0	ND	59.0	103.0	780.0	130.0	69.0	65.0	80.0	140.0	150.0	163.6	
EFFLUENT (MG/L)	ND	5.3	ND	8.4	12.0	2.2	2.6	2.8	3.8	12.0	14.0	3.9	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	13.56	ND	31.41	44.88	5.50	5.12	5.93	8.01	23.64	30.38	9.16	17.02	
LOADING LIMIT (KG/D)													107.5	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	45.0	ND	85.0	180.0	65.0	40.0	40.0	290.0	55.0	175.0	260.0	123.5	
EFFLUENT (MG/L)	ND	8.0	ND	6.1	22.5	3.0	10.0	3.0	3.0	5.0	11.0	4.0	7.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	20.48	ND	22.81	84.15	7.50	19.70	6.36	6.33	9.85	23.87	9.40	19.30	
LOADING LIMIT (KG/D)													129.0	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	ND	2.9	ND	3.2	4.6	3.1	4.2	4.4	3.5	4.2	4.9	5.5	4.1	
EFFLUENT (MG/L)	ND	1.3	ND	0.9	0.9	0.2	0.5	0.6	0.7	0.3	0.7	0.9	0.7	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	ND	3.32	ND	3.36	3.36	0.50	0.98	1.27	1.47	0.59	1.51	2.11	1.78	
LOADING LIMIT (KG/D)													4.31	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	LOADING	COMPLIES WITH
BOD	25.0 MG/L	107.5 KG/D	YES
SS	30.0 MG/L	129.0 KG/D	YES
TP	1.0 MG/L	4.3 KG/D	YES

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

START DATE END DATE
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MICHIGAN
 PLANT : WAWA LAGOON
 WORKS NUMBER : 110000454
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 4.54 (1000 M3)

REGION : NORTHEAST
 DISTRICT : ALGOMA
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MAGPIE RIVER
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 3,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.70	2.56	2.51	3.74	3.74	2.50	1.97	2.12	2.11	1.97	2.17	2.35	2.54	
LAGOON DISCHARGE	83.60	71.75	77.49	117.32	116.06	74.86	61.07	65.73	63.21	61.21	65.15	72.78	77.52	
BOD5														
INFLUENT (MG/L)	ND	60.0	ND	59.0	103.0	780.0	130.0	69.0	65.0	80.0	140.0	150.0	163.6	
EFFLUENT (MG/L)	ND	5.3	ND	8.4	12.0	2.2	2.6	2.8	3.8	12.0	14.0	3.9	6.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	13.56	ND	31.41	44.88	5.50	5.12	5.93	8.01	23.64	30.38	9.16	17.02*	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	45.0	ND	85.0	180.0	65.0	40.0	40.0	290.0	55.0	175.0	260.0	123.5	
EFFLUENT (MG/L)	ND	8.0	ND	6.1	22.5	3.0	10.0	3.0	3.0	5.0	11.0	4.0	7.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	20.48	ND	22.81	84.15	7.50	19.70	6.36	6.33	9.85	23.67	9.40	19.30*	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	2.9	ND	3.2	4.6	3.1	4.2	4.4	3.5	4.2	4.9	5.5	4.1	
EFFLUENT (MG/L)	ND	1.3*	ND	0.9	0.9	0.2	0.5	0.6	0.7	0.3	0.7	0.9	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	3.32	ND	3.36	3.36	0.50	0.98	1.27	1.47	0.59	1.51	2.11	1.78*	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED ANNUALLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE :
 END DATE :
 ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOONBEAM
PLANT : MOONBEAM LAGOON
WORKS NUMBER : 110000230
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREEK SYS TO GROUNDHOG R
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 1,000

DESIGN CAPACITY : 0.65 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	0.21	0.22	ND	ND	1.12	1.00	ND	2.14	ND	0.94	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	413.0	185.0	235.0	140.0	64.0	235.0	191.3	125.0	80.0	ND	ND	ND	185.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5	ND	4.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.63	ND	4.23	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	940.0	130.0	550.0	220.0	85.0	140.0	175.0	145.0	120.0	ND	ND	ND	278.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.3	ND	38.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81.96	ND	36.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.5	6.8	7.8	3.1	2.5	4.8	6.0	6.1	3.2	ND	ND	ND	5.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	1.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.21	ND	1.41	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.21	ND	1.41	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: MOOSENEE D.A.B.	REGION	: NORTHEAST
PLANT	: MOOSENEE WPCP (NORTH)	DISTRICT	: COCHRANE
WORKS NUMBER	: 120000319	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: MOOSE RIVER
	:	MINOR BASIN	: JAMES BAY
	:	MAJOR BASIN	: ARCTIC WATERSHED
DESIGN CAPACITY	: 0.25 (1000 M3)	POPULATION SERVED	: 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.26	0.23	0.24	0.20	0.21	0.20	0.20	0.20	0.19	0.18	0.18	0.19	0.21	
BOD5														
INFLUENT (MG/L)	ND	22.0	29.0	24.0	67.0	48.0	39.0	25.0	82.5	ND	91.0	137.0	56.5	
EFFLUENT (MG/L)	3.7	11.1	3.6	2.4	11.2	4.5	6.5	7.6	7.0	ND	4.7	8.5	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.96	2.55	0.86	0.48	2.35	0.90	1.30	1.52	1.33	ND	0.84	1.61	1.34	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	121.0	62.0	71.0	49.0	123.0	115.0	59.0	75.0	209.5	ND	73.0	273.0	111.9	
EFFLUENT (MG/L)	ND	20.3	17.3	11.0	75.5	7.2	9.0	11.0	17.5	ND	8.0	13.4	19.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	4.66	4.15	2.20	15.85	1.44	1.80	2.20	3.32	ND	1.44	2.54	3.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	2.3	2.2	1.9	3.5	4.1	2.4	2.3	ND	ND	3.8	5.6	3.1	
EFFLUENT (MG/L)	0.4	0.5	0.4	0.3	0.5	0.3	0.6	1.0	ND	ND	0.6	0.9	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.10	0.11	0.09	0.06	0.10	0.06	0.12	0.20	ND	ND	0.10	0.17	0.13	

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - HAS NO CRITERIA

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOOSENEE D.A.B.
 PLANT : MOOSENEE WPCP (OLD TOWNSITE)
 WORKS NUMBER : 110001060
 TREATMENT : CONTACT STABILIZATION
 :
 :
 DESIGN CAPACITY : 0.50 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : STORE CK TO MOOSE RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.61	0.70	0.78	0.74	0.70	0.74	0.71	0.81	0.88	0.65	0.55	0.70	
BOD5														
INFLUENT (MG/L)	ND	88.0	79.0	117.0	122.0	217.0	118.0	125.0	110.0	ND	91.0	154.0	122.1	
EFFLUENT (MG/L)	12.0	53.2	66.0	21.6	30.0	74.4	27.2	57.3	42.7	ND	6.8	74.0	42.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.60	32.45	46.20	16.84	22.20	52.08	20.12	40.68	34.56	ND	4.42	40.70	29.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	153.0	205.0	133.0	454.0	100.0	149.0	205.0	217.0	173.0	ND	80.0	130.0	181.7	
EFFLUENT (MG/L)	ND	70.5	89.5	22.0	27.0	150.0	42.5	14.5	13.0	ND	8.0	20.2	45.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	43.00	62.65	17.16	19.98	105.00	31.45	10.29	10.53	ND	5.20	11.11	31.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	5.0	5.6	4.9	4.9	8.6	5.6	5.7	ND	ND	3.4	5.2	5.4	
EFFLUENT (MG/L)	2.4	3.2	4.0	1.3	2.2	6.2	1.8	0.6	ND	ND	0.5	2.1	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.32	1.95	2.80	1.01	1.62	4.34	1.33	0.42	ND	ND	0.32	1.15	1.68	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM CRITERIA	WITH CONC	
BOD 25.0 MG/L	NO	
SS 25.0 MG/L	NO	
TP	NA	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

START DATE END DATE ANTICIPATED
 COMPLIANCE

1989/09

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NEW LISKEARD
: NEW LISKEARD LAGOON
: 110000515
: AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: 5.50 (1000 M3)

DESIGN CAPACITY

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : WABI RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.22	3.15	3.92	6.54	5.58	5.29	4.26	4.07	3.41	3.35	4.05	3.32	4.18	
LAGOON DISCHARGE	99.96	88.05	121.54	199.24	172.89	117.98	131.95	126.01	102.43	103.81	122.22	103.02	124.09	
BOD5 INFLUENT (MG/L)	127.0	132.0	114.0	50.0	55.0	ND	60.0	80.0	105.0	151.0	71.0	140.0	98.6	
EFFLUENT (MG/L)	14.5	23.0	20.5	12.0	9.4	ND	14.0	4.2	3.7	2.3	5.7	3.0	10.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	46.69	72.45	80.36	78.48	52.45	ND	59.64	17.09	12.61	7.70	23.08	9.96	42.64	
SUSPENDED SOLIDS INFLUENT (MG/L)	144.0	142.0	183.0	75.0	46.0	ND	74.0	140.0	85.0	191.0	90.0	242.0	128.4	
EFFLUENT (MG/L)	10.0	10.0	12.5	10.0	16.3	ND	20.0	2.0	8.0	5.0	6.0	7.0	9.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	32.20	31.50	49.00	65.40	90.95	ND	85.20	8.14	27.28	16.75	24.30	23.24	40.55	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	6.0	6.3	6.6	2.1	3.5	ND	4.7	3.9	5.2	5.9	3.4	6.0	4.9	
EFFLUENT (MG/L)	0.7	1.2*	1.5*	1.5*	0.6	ND	1.7*	2.2*	0.7	0.4	0.4	0.5	1.0	5
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	2.25	3.78	5.88	9.81	3.34	ND	7.24	8.95	2.38	1.34	1.62	1.66	4.18	

SUMMARY

COMPLIES
WITH CONC
PARAM CRITERIA
BOD 30.0 MG/L YES
SS 40.0 MG/L YES
TP 1.0 MG/L NO

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED

START DATE END DATE
ANTICIPATED COMPLIANCE

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NICKEL CENTRE
 PLANT : CONISTON WPCP
 WORKS NUMBER : 110000123
 TREATMENT : OXIDATION DITCH
 : CONVENTIONAL ACTIVATED SLUDGE
 :
 DESIGN CAPACITY : 3.00 (1000 M3)

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : CONISTON CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,790

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.34	1.31	1.63	3.24	2.13	2.17	0.82	1.45	1.07	1.17	1.51	1.27	1.59	
BOD5														
INFLUENT (MG/L)	105.0	106.0	114.0	39.0	59.0	72.0	ND	109.0	147.0	127.0	113.0	183.0	106.7	
EFFLUENT (MG/L)	11.5	14.0	10.0	20.2	6.4	8.3	ND	10.1	3.8	13.0	10.6	21.0	11.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.41	18.34	16.30	65.44	13.63	18.01	ND	14.64	4.06	15.21	16.00	26.67	18.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	88.0	88.0	87.0	60.0	73.0	72.0	75.0	73.0	117.0	117.0	113.0	125.0	90.7	
EFFLUENT (MG/L)	8.5	8.0	19.0	19.8	5.0	6.1	3.8	10.6	5.5	15.8	5.4	4.0	9.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.39	10.48	30.97	64.15	10.65	13.23	3.11	15.37	5.88	18.48	8.15	5.08	14.79	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	4.9	5.3	2.2	3.6	4.3	ND	6.1	6.2	5.3	4.9	5.8	4.9	
EFFLUENT (MG/L)	2.9	3.0	2.6	1.5	1.6	2.3	ND	4.1	4.2	3.2	2.5	3.0	2.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.88	3.93	4.23	4.06	3.40	4.99	ND	5.94	4.49	3.74	3.77	3.81	4.45	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES

EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED

START DATE 1990/08
 END DATE 1991/01
 ANTICIPATED COMPLIANCE 1991/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NICKEL CENTRE
: FALCONBRIDGE TOWNSITE WPCP
: 120001158
: TRICKLING FILTER

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : FALCON CR. TO CONISTON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 836

DESIGN CAPACITY : 0.91 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.59	0.70	0.94	0.65	0.75	0.66	0.63	0.86	0.92	0.92	ND	0.83	0.77	
BOD5														
INFLUENT (MG/L)	87.0	129.0	105.0	86.0	ND	59.0	ND	66.0	230.0	64.0	ND	66.0	99.1	
EFFLUENT (MG/L)	34.5	32.5	37.0	42.0	ND	43.5	ND	36.5	42.0	45.0	ND	34.0	30.6M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	20.35	22.75	34.78	27.30	ND	28.71	ND	31.39	38.64	41.40	ND	28.22	29.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	207.0	117.0	138.0	89.0	78.0	56.0	58.0	69.0	240.0	106.0	ND	42.0	109.1	
EFFLUENT (MG/L)	30.0	37.0	41.0	63.3	51.6	42.5	49.0	33.8	35.0	73.7	ND	30.1	44.3M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.70	25.90	38.54	41.14	38.70	28.05	30.87	29.06	32.20	67.80	ND	24.98	34.11	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	4.9	6.3	7.6	ND	4.0	ND	11.5	5.7	7.2	ND	4.5	6.3	
EFFLUENT (MG/L)	3.3	3.2	3.4	6.0	ND	3.8	ND	5.1	3.0	3.3	ND	3.2	3.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.94	2.24	3.19	3.90	ND	2.50	ND	4.38	2.76	3.03	ND	2.65	2.93	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L NO
SS 25.0 MG/L NO
TP NA NA

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED

START DATE END DATE ANTICIPATED
COMPLIANCE

1989/04 1990/12 1990/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NICKEL CENTRE
 PLANT : GARSON LAGOON (STANDBY)
 WORKS NUMBER : 120004887
 TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : FLOW TO SUDBURY WPCP
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,107

DESIGN CAPACITY : 3.45 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)														
LAGOON DISCHARGE	ND	ND	ND	ND	ND	0.59	ND	0.77	0.87	ND	1.13	ND	0.56	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	163.0	100.0	128.0	ND	48.0	280.0	ND	ND	ND	143.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	5.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	180.0	120.0	60.0	ND	40.0	100.0	ND	ND	ND	100.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.0	24.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	6.2	7.8	6.5	ND	4.7	9.2	ND	ND	ND	6.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	2.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: NICKEL CENTRE
: WAHNAPIITAE LAGOON
: 120003156
: CONVENTIONAL LAGOON SEASONAL
:
:

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WANAPITEI RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 958

DESIGN CAPACITY : 1.33 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.60	0.51	1.55	1.08	0.88	0.72	ND	0.73	ND	0.65	ND	0.83	0.84	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	16.0	24.0	ND	30.0	80.0	ND	ND	ND	37.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	35.0	36.0	ND	83.0	170.0	ND	ND	ND	81.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	1.7	1.7	ND	1.7	2.3	ND	ND	ND	1.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

SUMMARY COMPLIES
PARAM CRITERIA WITH CONC
BOD 30.0 MG/L NO DIRECT DISCHARGE
SS 40.0 MG/L NO DIRECT DISCHARGE
TP NA NO DIRECT DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORTH BAY
 PLANT : NORTH BAY WPCP
 WORKS NUMBER : 110000533
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 DESIGN CAPACITY : 36.36 (1000 M3)

REGION : NORTHEAST
 DISTRICT : NIPPISSING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE NIPISSING
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 48,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.71	20.69	27.66	35.66	32.92	35.31	29.28	31.29	25.40	26.43	33.69	24.58	28.39	
BOD5 INFLUENT (MG/L)	154.0	130.0	111.0	93.0	113.0	124.0	130.0	172.4	91.0	134.0	237.0	228.0	143.1	
EFFLUENT (MG/L)	7.3	13.6	10.9	3.8	4.0	4.5	5.8	10.3	7.0	8.0	20.5	16.7	9.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	129.28	281.38	301.49	135.50	131.68	158.89	169.82	322.28	177.80	211.44	690.64	410.48	266.87	
SUSPENDED SOLIDS INFLUENT (MG/L)	248.0	240.0	349.0	252.0	287.0	284.0	547.5	572.3	315.0	312.0	344.0	632.0	365.2	
EFFLUENT (MG/L)	6.9	6.2	13.4	7.7	5.8	5.3	8.3	6.5	6.7	6.6	5.8	5.2	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	122.19	128.27	370.64	274.58	190.93	187.14	243.02	203.38	170.18	174.43	195.40	127.81	198.73	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	10.7	3.8	8.4	6.5	6.1	5.8	12.6	11.5	4.8	7.7	7.8	9.4	7.9	
EFFLUENT (MG/L)	0.8	1.0	1.0	0.6	0.7	0.7	0.6	0.8	0.9	0.9	0.7	0.6	0.8	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	14.16	20.69	27.66	21.39	23.04	24.71	17.56	25.03	22.86	23.78	23.58	14.74	22.71	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	YES
BOD	25.0 MG/L	YES	YES
SS	25.0 MG/L	YES	YES
TP	1.0 MG/L	YES	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORTH HINSWORTH
 PLANT : CALLANDER LAGOON
 WORKS NUMBER : 110001747
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 :
 DESIGN CAPACITY : 0.47 (1000 M3)

REGION : NORTHEAST
 DISTRICT : PARRY SOUND
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : DITCH TO CALLANDER BAY
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,220

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.59	0.49	1.13	0.89	0.92	0.83	0.65	0.62	0.53	0.59	0.79	0.63	0.72	
LAGOON DISCHARGE	ND	13.77	ND	26.16	28.36	ND	ND	ND	ND	ND	ND	ND	22.76	
BOD5														
INFLUENT (MG/L)	100.0	119.0	105.0	60.0	106.0	82.0	70.0	65.0	92.0	110.0	108.0	125.0	95.2	
EFFLUENT (MG/L)	ND	15.5	ND	7.0	7.3	ND	ND	ND	ND	ND	ND	ND	9.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	7.59	ND	6.23	6.71	ND	ND	ND	ND	ND	ND	ND	7.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	125.0	135.0	150.0	93.0	190.0	95.0	60.0	80.0	78.0	150.0	138.0	110.0	117.0	
EFFLUENT (MG/L)	ND	15.0	ND	72.5	11.0	ND	ND	ND	ND	ND	ND	ND	32.8*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	7.35	ND	64.52	10.12	ND	ND	ND	ND	ND	ND	ND	23.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	6.5	7.0	3.3	4.9	5.9	4.9	5.0	5.4	6.1	4.1	4.9	5.3	
EFFLUENT (MG/L)	ND	2.4*	ND	0.8	1.0	ND	ND	ND	ND	ND	ND	ND	1.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	1.17	ND	0.71	0.92	ND	ND	ND	ND	ND	ND	ND	1.01	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	NO	
TP	1.0 MG/L	NO	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES
 FACILITY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE : 1989/08
 END DATE : 1989/08
 ANTICIPATED COMPLIANCE : 1989/08

MUNICIPALITY	ONAPING FALLS
PLANT	DOWLING WPCP
WORKS NUMBER	110003077
TREATMENT	EXTENDED AERATION
DESIGN CAPACITY	2.08 (1000

2.08 (1000 M3)

REGION	:	NORTHEAST
DISTRICT	:	SUDBURY, REG. MUN.
OPERATING AUTHORITY	:	MUNICIPAL
WATERCOURSE	:	ONAPING RIVER
MINOR BASIN	:	HURON
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	2,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.19	2.01	2.12	2.37	2.43	2.32	2.37	2.07	2.12	2.06	1.94	2.00	2.17	
BOD5														
INFLUENT (MG/L)	37.0	41.0	69.0	41.0	28.0	29.0	25.0	32.0	32.0	61.0	48.0	53.0	41.3	
EFFLUENT (MG/L)	6.7	7.7	7.9	8.6	9.4	3.7	4.4	2.5	3.5	4.4	4.5	2.9	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.67	15.47	16.74	20.38	22.84	8.58	10.42	5.17	7.42	9.06	8.73	5.80	11.94	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	31.0	30.0	51.0	37.0	74.0	46.0	35.0	32.0	40.0	53.0	35.0	33.0	41.4	
EFFLUENT (MG/L)	6.0	4.9	6.2	4.8	6.5	5.9	7.0	5.4	5.0	6.0	3.5	2.9	5.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.14	9.84	13.14	11.37	15.79	13.68	16.59	11.17	10.60	12.36	6.79	5.80	11.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	2.4	3.5	2.3	1.7	2.2	1.6	1.7	2.5	3.5	2.0	2.4	2.3	
EFFLUENT (MG/L)	1.1	1.2	2.3	1.2	1.0	1.2	1.2	1.4	1.2	1.2	1.2	1.1	1.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.40	2.41	4.87	2.84	2.43	2.78	2.84	2.09	2.54	2.47	2.32	2.20	2.82	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
P	NA	NA	

NOTE:

BOD - ASSESSED ANNUALLY
 SSS - ASSESSED ANNUALLY
 TTP - HAS NO CRITERIA
 W - EXCEEDS EFFLUENT CRITERIA
 W - EXCESS (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE	END DATE	ANTICIPATED COMPLIANCE
01/01/2010	01/01/2011	100%
01/01/2011	01/01/2012	100%
01/01/2012	01/01/2013	100%
01/01/2013	01/01/2014	100%
01/01/2014	01/01/2015	100%
01/01/2015	01/01/2016	100%
01/01/2016	01/01/2017	100%
01/01/2017	01/01/2018	100%
01/01/2018	01/01/2019	100%
01/01/2019	01/01/2020	100%
01/01/2020	01/01/2021	100%
01/01/2021	01/01/2022	100%
01/01/2022	01/01/2023	100%
01/01/2023	01/01/2024	100%
01/01/2024	01/01/2025	100%
01/01/2025	01/01/2026	100%
01/01/2026	01/01/2027	100%
01/01/2027	01/01/2028	100%
01/01/2028	01/01/2029	100%
01/01/2029	01/01/2030	100%
01/01/2030	01/01/2031	100%
01/01/2031	01/01/2032	100%
01/01/2032	01/01/2033	100%
01/01/2033	01/01/2034	100%
01/01/2034	01/01/2035	100%
01/01/2035	01/01/2036	100%
01/01/2036	01/01/2037	100%
01/01/2037	01/01/2038	100%
01/01/2038	01/01/2039	100%
01/01/2039	01/01/2040	100%
01/01/2040	01/01/2041	100%
01/01/2041	01/01/2042	100%
01/01/2042	01/01/2043	100%
01/01/2043	01/01/2044	100%
01/01/2044	01/01/2045	100%
01/01/2045	01/01/2046	100%
01/01/2046	01/01/2047	100%
01/01/2047	01/01/2048	100%
01/01/2048	01/01/2049	100%
01/01/2049	01/01/2050	100%
01/01/2050	01/01/2051	100%
01/01/2051	01/01/2052	100%
01/01/2052	01/01/2053	100%
01/01/2053	01/01/2054	100%
01/01/2054	01/01/2055	100%
01/01/2055	01/01/2056	100%
01/01/2056	01/01/2057	100%
01/01/2057	01/01/2058	100%
01/01/2058	01/01/2059	100%
01/01/2059	01/01/2060	100%
01/01/2060	01/01/2061	100%
01/01/2061	01/01/2062	100%
01/01/2062	01/01/2063	100%
01/01/2063	01/01/2064	100%
01/01/2064	01/01/2065	100%
01/01/2065	01/01/2066	100%
01/01/2066	01/01/2067	100%
01/01/2067	01/01/2068	100%
01/01/2068	01/01/2069	100%
01/01/2069	01/01/2070	100%
01/01/2070	01/01/2071	100%
01/01/2071	01/01/2072	100%
01/01/2072	01/01/2073	100%
01/01/2073	01/01/2074	100%
01/01/2074	01/01/2075	100%
01/01/2075	01/01/2076	100%
01/01/2076	01/01/2077	100%
01/01/2077	01/01/2078	100%
01/01/2078	01/01/2079	100%
01/01/2079	01/01/2080	100%
01/01/2080	01/01/2081	100%
01/01/2081	01/01/2082	100%
01/01/2082	01/01/2083	100%
01/01/2083	01/01/2084	100%
01/01/2084	01/01/2085	100%
01/01/2085	01/01/2086	100%
01/01/2086	01/01/2087	100%
01/01/2087	01/01/2088	100%
01/01/2088	01/01/2089	100%
01/01/2089	01/01/2090	100%
01/01/2090	01/01/2091	100%
01/01/2091	01/01/2092	100%
01/01/2092	01/01/2093	100%
01/01/2093	01/01/2094	100%
01/01/20		

1991/01

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ONAPING FALLS
 PLANT : LEVACK WPCP
 WORKS NUMBER : 120001194
 TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : ONAPING RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,008

DESIGN CAPACITY : 1.58 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.46	1.30	1.42	2.07	1.34	1.19	0.66	0.90	0.69	0.85	0.82	0.86	1.17	
BOD5														
INFLUENT (MG/L)	58.0	79.0	77.0	50.0	69.0	101.0	140.0	135.0	225.0	118.0	205.0	132.0	115.8	
EFFLUENT (MG/L)	9.7	5.3	4.1	3.2	5.2	4.2	3.9	3.5	3.4	3.8	5.7	9.3	5.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.16	6.89	5.82	6.62	6.96	4.99	3.43	3.15	3.02	3.23	4.67	8.18	5.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	68.0	51.0	96.0	62.0	91.0	93.0	122.0	113.0	113.0	124.0	99.0	107.0	94.9	
EFFLUENT (MG/L)	5.5	2.9	4.9	3.3	6.0	6.5	6.0	6.7	6.2	6.6	3.4	5.9	5.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.03	3.77	6.95	6.83	8.04	7.73	5.28	6.03	5.51	5.61	2.78	5.19	6.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.0	7.7	4.1	2.1	4.1	5.0	5.7	6.4	7.2	5.9	6.7	4.5	5.2	
EFFLUENT (MG/L)	2.3	2.6	2.5	1.3	1.8	2.1	3.4	3.6	3.3	3.7	3.3	3.1	2.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.35	3.38	3.55	2.69	2.41	2.49	2.99	3.24	2.93	3.14	2.70	2.72	3.28	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1990/12	1990/12

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ONAPING FALLS
PLANT : ONAPING WPCP
WORKS NUMBER : 120001149
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SWAMP TO ONAPING RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 964

DESIGN CAPACITY : 0.68 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.54	0.54	0.55	0.55	0.54	0.55	0.54	0.54	0.54	0.54	0.57	0.55	0.55	
BOD5														
INFLUENT (MG/L)	67.0	111.0	50.0	70.0	142.0	165.0	105.0	63.0	110.0	70.0	124.0	253.0	110.8	
EFFLUENT (MG/L)	19.0	11.5	7.6	14.0	8.1	4.5	5.5	30.5	ND	ND	9.2	8.5	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.26	6.21	4.18	7.70	4.37	2.47	2.97	16.47	ND	ND	5.24	4.67	6.49	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	81.0	66.0	95.0	93.0	136.0	117.0	110.0	100.0	104.0	91.0	54.0	100.0	95.6	
EFFLUENT (MG/L)	7.0	3.6	6.7	8.6	11.7	11.1	22.1	30.0	13.6	10.5	3.9	4.0	11.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.78	1.94	3.68	4.73	6.31	6.10	11.93	16.20	7.34	5.67	2.22	2.20	6.11	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	5.9	3.2	3.9	5.0	11.0	6.1	5.7	7.8	6.5	4.9	5.2	5.7	
EFFLUENT (MG/L)	3.8	3.9	2.7	3.1	3.0	3.3	3.0	3.1	4.2	4.1	2.8	3.2	3.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.05	2.10	1.48	1.70	1.62	1.81	1.62	1.67	2.26	2.21	1.59	1.76	1.87	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP NA	NA

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY

START DATE END DATE
ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OPASATIKA
 PLANT : OPASATIKA LAGOON
 WORKS NUMBER : 120000658
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 1.81 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : OPASATIKA RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.11	0.11	0.16	0.19	0.17	0.20	0.10	0.13	0.13	0.07	0.15	0.10	0.14	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	160.0	280.0	ND	220.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	160.0	475.0	ND	317.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	10.4	ND	7.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 # - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 25.0 MG/L NO DISCHARGE	
SS 25.0 MG/L NO DISCHARGE	
TP 1.0 MG/L NO DISCHARGE	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PARRY SOUND
 PLANT : PARRY SOUND WPCP
 WORKS NUMBER : 110000560
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 6.59 (1000 M3)

REGION : NORTHEAST
 DISTRICT : PARRY SOUND
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MC CURRY LAKE
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.62	5.16	10.12	12.50	9.02	7.37	5.91	5.24	4.94	5.20	8.34	5.23	7.14	
BOD5 INFLUENT (MG/L)	97.0	113.0	76.0	85.0	83.0	108.0	145.2	123.3	133.0	151.0	119.0	100.0	111.1	
EFFLUENT (MG/L)	6.8	3.8	2.4	5.3	3.7	6.9	8.6	4.3	3.6	3.4	8.5	6.1	5.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	45.01	19.60	24.28	66.25	33.37	50.85	50.82	22.53	17.78	17.68	70.89	31.90	37.84	
SUSPENDED SOLIDS INFLUENT (MG/L)	98.0	194.0	96.0	114.0	141.0	148.0	210.8	119.9	144.0	114.0	100.0	111.0	132.6	
EFFLUENT (MG/L)	4.9	4.2	6.2	7.6	3.6	4.7	8.4	3.9	3.9	2.8	5.7	10.6	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	32.43	21.67	62.74	95.00	32.47	34.63	49.64	20.43	19.26	14.56	47.53	55.43	39.27	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	2.2	3.4	2.4	2.0	2.3	2.7	3.4	3.2	3.2	3.7	2.6	3.6	2.9	
EFFLUENT (MG/L)	0.3	0.5	0.5	0.4	0.7	0.9	0.8	0.5	0.7	0.4	0.4	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.98	2.58	5.06	5.00	6.31	6.63	4.72	2.62	3.45	2.08	3.33	3.66	4.28	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: POWASSAN
: POWASSAN LAGOON
: 110000613

: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
: REGULATED DISCHARGE VOLUME
: 0.84 (1000 M3)

DESIGN CAPACITY

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GENESEE CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.00	0.96	2.14	2.03	1.98	1.87	7.16	1.05	1.02	0.84	1.21	1.05	1.94	
LAGOON DISCHARGE	ND	ND	ND	ND	52.25	33.96	ND	ND	ND	ND	ND	ND	43.11	
BOD5														
INFLUENT (MG/L)	60.0	100.0	58.0	90.0	44.0	72.0	ND	ND	22.0	35.0	44.0	ND	58.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	4.9	5.7	ND	ND	ND	ND	ND	ND	5.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	9.70	10.65	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	95.0	75.0	75.0	75.0	50.0	ND	ND	15.0	35.0	110.0	ND	68.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	16.0	9.0	ND	ND	ND	ND	ND	ND	12.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	31.68	16.83	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.25	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	4.1	3.3	8.0	2.7	0.9	ND	ND	2.3	2.1	2.5	ND	3.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.4	1.0	ND	ND	ND	ND	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	ND	ND	ND	ND	0.79	1.87	ND	ND	ND	ND	ND	ND	1.36	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTES:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RATTER & DUNNET
 PLANT : WARREN LAGOON
 WORKS NUMBER : 110001916
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.68 (1000 M3)

REGION : NORTHEAST
 DISTRICT : SUDBURY DIST.
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : VEUVE RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 612

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.30	0.25	0.31	0.30	0.29	0.33	0.28	0.28	0.34	0.34	0.28	0.36	0.31	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	137.0	65.0	62.0	52.0	81.0	112.0	122.5	108.5	61.0	93.0	182.0	72.0	95.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	75.0	80.0	108.0	68.0	93.0	132.5	60.0	30.0	95.0	135.0	40.0	84.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	2.6	6.7	2.9	4.8	5.1	4.6	4.8	3.0	4.5	3.4	2.1	4.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

COMPLIES
 WITH CONC
 PARM CRITERIA
 BOD 25.0 MG/L NO DISCHARGE
 SS 25.0 MG/L NO DISCHARGE
 TP 1.0 MG/L NO DISCHARGE

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RAYSIDE-BALFOUR
 PLANT : AZILDA WPCP
 WORKS NUMBER : 110001783
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 2.84 (1000 M3)

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WHITSON CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 4,373

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.61	1.64	2.06	3.89	3.27	2.84	1.59	1.28	1.19	1.33	1.61	1.58	1.99	
BOD5														
INFLUENT (MG/L)	110.0	135.0	113.0	ND	9.0	15.0	36.0	68.0	130.0	139.0	159.0	148.0	96.5	
EFFLUENT (MG/L)	3.3	4.0	2.7	5.8	5.9	2.1	1.7	1.7	6.6	ND	4.9	5.2	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.31	6.56	5.56	22.56	19.29	5.96	2.70	2.17	7.85	ND	7.88	8.21	7.96	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	82.0	76.0	110.0	41.0	31.0	55.0	97.0	75.0	106.0	120.0	127.0	85.0	83.8	
EFFLUENT (MG/L)	6.8	3.6	6.9	19.7	11.5	10.0	5.6	6.1	5.2	7.8	6.7	8.5	8.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.94	5.90	14.21	76.63	37.60	28.40	8.90	7.80	6.18	10.37	14.00	13.43	16.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	3.2	3.2	1.7	1.0	1.5	2.9	4.3	4.4	3.9	3.9	3.4	3.1	
EFFLUENT (MG/L)	0.2	0.6	0.5	0.5	0.4	0.5	0.6	0.7	ND	0.5	0.7	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.32	0.98	1.03	1.94	1.30	1.42	0.95	0.89	ND	0.66	1.12	0.63	1.00	

SUMMARY	COMPLIES
PARM CRITERIA WITH CONC	
BOD 25.0 MG/L	YES
SS 25.0 MG/L	YES
TP 1.0 MG/L	YES

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

START DATE 1990/10
 END DATE 1991/01
 ANTICIPATED COMPLIANCE 1991/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RAYSIDE-BALFOUR
 PLANT : CHELMSFORD LAGOON
 WORKS NUMBER : 120001176
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 0.82 (1000 M3)

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : MCKENZIE CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 8,162

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.10	1.06	1.22	2.99	1.87	2.05	ND	0.97	1.09	1.33	2.00	1.04	1.52	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	248.55	248.55	
BOD5														
INFLUENT (MG/L)	ND	ND	90.0	44.0	100.0	ND	ND	ND	78.0	110.0	144.0	105.0	95.9	
EFFLUENT (MG/L)	ND	ND	9.0	27.4	17.5	ND	ND	ND	7.0	ND	9.6	9.0	13.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	10.98	81.92	32.72	ND	ND	ND	7.63	ND	19.20	9.36	20.22	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	110.0	80.0	120.0	ND	ND	ND	30.0	120.0	188.0	110.0	108.3	
EFFLUENT (MG/L)	ND	ND	7.0	23.0	59.0	ND	ND	ND	8.0	ND	11.0	10.0	19.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	8.54	68.77	110.33	ND	ND	ND	8.72	ND	22.00	10.40	29.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	4.6	3.3	5.8	ND	ND	ND	4.8	7.0	7.0	6.9	5.6	
EFFLUENT (MG/L)	ND	ND	1.4	3.8	1.8	ND	ND	ND	2.0	ND	3.8	6.4	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	1.70	11.36	3.36	ND	ND	ND	2.18	ND	7.60	6.65	4.86	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1990/05	1990/05

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: RAYSIDE-BALFOUR
: CHELMSFORD WPCP
: 120001568

: EXTENDED AERATION
: CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: 3.06 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WHITSON RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,934

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.52	3.57	5.45	7.95	4.63	5.01	2.63	2.50	2.26	2.70	2.92	3.25	3.87	
BOD5														
INFLUENT (MG/L)	83.0	100.0	106.0	34.0	52.0	35.0	157.0	57.0	68.0	120.0	174.0	181.0	97.3	
EFFLUENT (MG/L)	10.5	7.7	7.2	12.0	13.0	5.6	7.4	10.0	4.2	5.4	14.1	8.0	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	36.96	27.48	39.24	95.40	60.19	28.05	19.46	25.00	9.49	14.58	41.17	26.00	34.06	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	106.0	109.0	133.0	92.0	63.0	77.0	143.0	115.0	140.0	121.0	131.0	206.0	119.7	
EFFLUENT (MG/L)	6.5	7.4	11.9	12.3	13.1	5.7	4.4	7.0	6.4	5.7	5.5	4.2	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.66	26.41	64.85	97.78	60.65	28.55	11.57	17.50	14.46	15.39	16.06	13.65	29.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	7.5	4.4	3.1	3.0	3.3	4.0	4.0	5.6	4.3	4.1	5.1	4.4	
EFFLUENT (MG/L)	0.2	0.5	0.8	0.9	0.6	0.5	0.6	1.2*	1.3*	0.4	0.4	0.3	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	0.70	1.78	4.36	7.15	2.77	2.50	1.57	3.00	2.93	1.08	1.16	0.97	2.32	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED
FACILITY EXPANSION/UPGRADING - ASSIMILATION STUDY UNDERWAY

START DATE	END DATE	ANTICIPATED COMPLIANCE
1990/05	1991/01	1991/01
1990/05	1991/01	1991/01
1990/05	1991/01	1991/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RUTHERFORD & GEORGE JSL.
 PLANT : KILLARNEY LAGOON
 WORKS NUMBER : 110002559
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.00 (1000 M3)

REGION : NORTHEAST
 DISTRICT : MANITOULIN
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : KILLARNEY CHANNEL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 505

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	0.11	0.18	0.22	0.16	0.15	0.15	0.15	0.13	0.12	0.11	0.10	0.14	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	114.0	135.0	37.0	25.0	ND	ND	150.0	120.0	92.0	52.0	ND	90.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	85.0	78.0	ND	30.0	ND	ND	45.0	40.0	80.0	60.0	ND	59.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	3.5	4.9	2.6	1.3	ND	ND	7.5	2.6	5.8	4.1	ND	4.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD 25.0 MG/L	NO DISCHARGE
SS 25.0 MG/L	NO DISCHARGE
TP 1.0 MG/L	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: SAULT STE MARIE
: SAULT STE MARIE WPCP
: 110000640
: PRIMARY
:

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST MARY'S RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 80,000

DESIGN CAPACITY : 54.55 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	22.57	24.31	37.64	72.82	43.06	31.43	32.30	24.09	39.45	25.32	23.83	17.89	32.89	
BOD5														
INFLUENT (MG/L)	318.0	201.0	ND	56.0	56.0	196.0	72.0	116.0	143.5	146.5	97.0	130.0	139.3	
EFFLUENT (MG/L)	69.5	86.5	ND	43.5	27.5	29.2	20.3	37.4	47.0	72.0	60.5	83.3	52.4	
LOADING (KG/D)	1568.61	2102.81	ND	3167.67	1184.15	917.75	655.69	900.96	1854.15	1823.04	1441.71	1490.23	1723.44	
PERCENT REMOVAL	78	57		22	51	85	72	68	67	51	30	36	62	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	332.0	146.0	ND	76.0	156.0	137.0	165.0	197.5	202.0	203.0	155.0	150.0	174.5	
EFFLUENT (MG/L)	40.5	56.0	ND	52.0	42.2	24.8	29.8	25.2	39.7	50.5	40.2	53.0	41.3	
LOADING (KG/D)	914.08	1361.36	ND	3786.64	1817.13	779.46	962.54	607.06	1566.16	1278.66	957.96	948.17	1358.36	
PERCENT REMOVAL	88	62		32	73	82	82	87	80	75	74	65	76	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	3.5	ND	1.7	2.4	3.5	4.5	3.1	5.4	2.3	2.6	2.4	3.4	
EFFLUENT (MG/L)	4.0	2.5	ND	1.0	1.4	3.9	1.3	0.7	1.2	1.0	1.5	1.3	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	90.28	60.77	ND	72.82	60.28	122.57	41.99	16.86	47.34	25.32	35.74	23.25	59.20	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30%	YES	
SS	50%	YES	
TP	NA	NA	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE END DATE ANTICIPATED
COMPLIANCE

OPERATIONAL/PROCESS - START-UP DIFFICULTIES BEING CORRECTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SAULT STE MARIE
 PLANT : WEST END WPCP
 WORKS NUMBER : 110002540
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL--CONTINUOUS
 :
 DESIGN CAPACITY : 18.18 (1000 M3)

REGION : NORTHEAST
 DISTRICT : ALGOMA
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ST MARY'S RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 80,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.69	5.85	8.89	15.33	7.70	8.29	6.63	6.70	7.19	6.69	8.67	6.19	7.90	
BOD5 INFLUENT (MG/L)	128.0	216.0	ND	43.0	ND	132.0	ND	293.0	284.5	137.5	215.0	159.0	178.7	
EFFLUENT (MG/L)	12.6	10.5	ND	18.0	ND	7.9	ND	3.9	51.5	21.7	8.3	7.9	15.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	84.29	61.42	ND	275.94	ND	65.49	ND	26.13	370.28	145.17	71.96	48.90	124.82	
SUSPENDED SOLIDS INFLUENT (MG/L)	212.0	199.0	176.0	80.0	1,630.0	178.0	ND	571.0	281.3	225.0	174.0	143.0	351.8	
EFFLUENT (MG/L)	2.7	4.0	29.3	9.0	15.3	4.8	15.0	11.6	51.0	15.5	9.3	5.0	14.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.06	23.40	260.47	137.97	117.81	39.79	99.45	77.72	366.69	103.69	80.63	30.95	113.76	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.9	5.3	7.1	2.2	5.6	5.5	ND	7.7	7.7	4.1	2.7	3.5	5.1	1
EFFLUENT (MG/L)	1.0	0.8	0.7	0.4	0.8	0.7	1.0	0.6	1.3*	0.9	0.6	0.4	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	6.69	4.68	6.22	6.13	6.16	5.80	6.63	4.02	9.34	6.02	5.20	2.47	6.32	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY
 COMPLIES
 WITH CONC
 YES
 YES
 NO

REMEDIAL MEASURES
 EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED

START DATE
 1989/09

END DATE
 COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SMOOTH ROCK FALLS
 PLANT : SMOOTH ROCK FALLS WPCP
 WORKS NUMBER : 110002130
 TREATMENT : EXTENDED AERATION
 :
 :
 DESIGN CAPACITY : 1.63 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MATTAGAMI RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 2,251

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.37	1.38	1.57	162.00	2.84	1.69	1.36	1.45	1.34	1.76	1.85	1.19	14.98	
BOD5														
INFLUENT (MG/L)	94.0	61.0	69.0	40.0	7.0	29.0	69.0	48.0	122.0	55.0	62.0	110.0	63.8	
EFFLUENT (MG/L)	3.3	3.9	2.9	2.4	3.4	2.0	1.5	2.2	1.5	2.0	1.8	2.7	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.52	5.38	4.55	388.80	9.65	3.38	2.04	3.19	2.01	3.52	3.33	3.21	37.45	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	63.0	60.0	70.0	65.0	9.0	20.0	40.0	30.0	73.0	65.0	88.0	140.0	60.3	
EFFLUENT (MG/L)	6.0	6.0	ND	ND	ND	ND	ND	6.0	1.2	6.5	6.0	5.0	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.22	8.28	ND	ND	ND	ND	ND	8.70	1.60	11.44	11.10	5.95	77.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	3.9	193.1	2.2	6.7	3.2	9.4	3.9	5.7	3.5	4.0	6.5	20.6	
EFFLUENT (MG/L)	3.3	3.7	3.2	1.3	0.9	1.8	2.6	2.0	2.7	2.2	1.7	3.4	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.52	5.10	5.02	210.60	2.55	3.04	3.53	2.90	3.61	3.87	3.14	4.04	35.95	

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	INSUFFICIENT DATA
TP	NA	NA

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STURGEON FALLS
 PLANT : STURGEON FALLS WPCP
 WORKS NUMBER : 110001435
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 4.54 (1000 M3)

REGION : NORTHEAST
 DISTRICT : NIPPISSING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : STURGEON RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 6,040

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.23	5.20	6.71	9.06	7.40	6.13	5.11	5.03	4.46	4.85	5.67	5.20	5.84	
BOD5														
INFLUENT (MG/L)	74.0	75.0	92.0	53.0	60.0	66.0	105.0	65.0	81.0	101.0	88.0	98.0	79.8	
EFFLUENT (MG/L)	4.3	6.0	11.5	4.4	5.2	10.7	3.4	3.1	4.5	3.7	4.3	5.0	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.48	31.20	77.16	39.86	38.48	65.59	17.37	15.59	20.07	17.94	24.38	26.00	32.12	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	87.0	77.0	115.0	238.0	70.0	95.0	76.7	80.4	78.0	123.0	79.0	96.0	101.3	
EFFLUENT (MG/L)	6.8	6.5	14.7	8.5	7.1	6.2	6.5	5.4	4.7	7.7	4.3	10.8	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	35.56	33.80	98.63	77.01	52.54	38.00	33.21	27.16	20.96	37.34	24.38	56.16	43.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	3.8	4.2	2.7	2.5	ND	4.4	4.4	4.0	5.1	3.3	4.2	3.9	
EFFLUENT (MG/L)	0.6	0.8	1.1	0.4	0.4	0.6	1.3	1.4	1.3	0.9	0.6	0.8	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.13	4.16	7.38	3.62	2.96	3.67	6.64	7.04	5.79	4.36	3.40	4.16	5.26	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

REMEDIAL MEASURES

OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED
 OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED

START DATE END DATE ANTICIPATED COMPLIANCE

1989 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : SUDBURY
 PLANT : SUDBURY WPCP
 WORKS NUMBER : 110000711
 TREATMENT : HIGH RATE

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : JUNCTION CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 95,000

DESIGN CAPACITY : 68.19 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	58.98	56.67	58.99	84.47	66.71	69.36	55.06	55.54	53.13	53.50	58.13	54.45	60.42	
BOD5														
INFLUENT (MG/L)	91.0	76.0	71.0	34.0	46.0	61.0	73.0	64.0	84.0	77.0	79.0	96.0	71.0	
EFFLUENT (MG/L)	24.0	26.5	13.3	9.8	3.6	9.8	8.6	4.8	3.9	9.0	36.0	39.5	15.7	
CONCENTRATION LIMIT (MG/L)													20.0	
LOADING (KG/D)	1415.52	1501.75	784.56	827.80	240.15	679.72	473.51	266.59	207.20	481.50	2092.68	2150.77	948.59	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	61.0	64.0	83.0	61.0	57.0	71.0	61.0	51.0	72.0	69.0	85.0	75.0	67.5	
EFFLUENT (MG/L)	10.9	10.3	10.4	14.1	10.9	11.2	10.1	12.0	9.5	17.9	10.0	21.5	12.4	
CONCENTRATION LIMIT (MG/L)													20.0	
LOADING (KG/D)	642.88	583.70	613.49	1191.02	727.13	776.83	556.10	666.48	504.73	957.65	581.30	1170.67	749.21	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.7	3.6	2.7	1.8	2.1	1.9	2.0	2.5	2.0	3.0	2.7	3.1	2.5	
EFFLUENT (MG/L)	1.0	0.9	0.9	0.5	0.6	0.5	0.6	0.7	0.9	0.8	0.8	1.0	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	58.98	51.00	53.09	42.23	40.02	34.68	33.03	38.87	47.81	42.80	46.50	54.45	48.34	
LOADING LIMIT (KG/D)														

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC
BOD	20.0 MG/L	NA	YES
SS	20.0 MG/L	NA	YES
TP	NA	NA	NA

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED

START DATE 1990/08
 END DATE 1991/01
 ANTICIPATED COMPLIANCE 1991/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SUDBURY
 PLANT : SUDBURY WPCP
 WORKS NUMBER : 110000711
 TREATMENT : HIGH RATE

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : JUNCTION CREEK
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 95,000

DESIGN CAPACITY : 68.19 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	58.98	56.67	58.99	84.47	66.71	69.36	55.06	55.54	53.13	53.50	58.13	54.45	60.42	
BOD5 INFLUENT (MG/L)	91.0	76.0	71.0	34.0	46.0	61.0	73.0	64.0	84.0	77.0	79.0	96.0	71.0	
EFFLUENT (MG/L)	24.0	26.5	13.3	9.8	3.6	9.8	8.6	4.8	3.9	9.0	36.0	39.5	15.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1415.52	1501.75	781.56	827.80	240.15	679.72	473.51	266.59	207.20	481.50	2092.68	2150.77	948.59	
SUSPENDED SOLIDS INFLUENT (MG/L)	61.0	64.0	83.0	61.0	57.0	71.0	61.0	51.0	72.0	69.0	85.0	75.0	67.5	
EFFLUENT (MG/L)	10.9	10.3	10.4	14.1	10.9	11.2	10.1	12.0	9.5	17.9	10.0	21.5	12.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	642.88	583.70	613.49	1191.02	727.13	776.83	556.10	666.48	504.73	957.65	581.30	1170.67	749.21	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	2.7	3.6	2.7	1.8	2.1	1.9	2.0	2.5	2.0	3.0	2.7	3.1	2.5	
EFFLUENT (MG/L)	1.0	0.9	0.9	0.5	0.6	0.5	0.6	0.7	0.9	0.8	0.8	1.0	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	58.98	51.00	53.09	42.23	40.02	34.68	33.03	38.87	47.81	42.80	46.50	54.45	48.34	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

REMEDIAL MEASURES

FACILITY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED

START DATE END DATE ANTICIPATED
 COMPLIANCE

1990/08 1991/01 1991/01

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: SUNDRI	REGION	: NORTHEAST
PLANT	: SUNDRI	DISTRICT	: PARRY SOUND
WORKS NUMBER	: 110001961	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: CONVENTIONAL LAGOON	WATERCOURSE	: BERNARD CREEK
	: PHOSPHORUS REMOVAL - BATCH	MINOR BASIN	: HURON
DESIGN CAPACITY	: 0.65 (1000 M3)	MAJOR BASIN	: GREAT LAKES
		POPULATION SERVED	: 740

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.46	0.45	0.55	0.70	0.63	0.61	0.53	0.49	0.44	0.44	0.50	0.46	0.52	
LAGOON DISCHARGE	ND	ND	ND	ND	77.89	98.14	ND	ND	ND	ND	ND	ND	88.02	
BOD5														
INFLUENT (MG/L)	55.0	131.0	ND	52.0	22.0	70.0	140.0	205.0	120.0	89.0	ND	ND	98.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.1	8.6	ND	ND	ND	ND	ND	ND	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	3.84	5.24	ND	ND	ND	ND	ND	ND	3.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	50.0	55.0	ND	60.0	20.0	45.0	55.0	110.0	65.0	68.0	ND	ND	58.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	25.0	18.8	ND	ND	ND	ND	ND	ND	21.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	15.75	11.46	ND	ND	ND	ND	ND	ND	11.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	6.5	ND	6.2	1.9	1.2	7.5	10.4	5.8	5.4	ND	ND	5.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.0	0.8	ND	ND	ND	ND	ND	ND	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.63	0.48	ND	ND	ND	ND	ND	ND	0.47	

SUMMARY	COMPLIES
PARAM CRITERIA	WITH CONC
BOD	25.0 MG/L YES
SS	25.0 MG/L YES
TP	1.0 MG/L YES

NOTE:

BOD - ASSESSED ANNUALLY

SS - ASSESSED ANNUALLY

TP - ASSESSED MONTHLY

* - EXCEEDS EFFLUENT CRITERIA

SPACE (EG. " ") INDICATES A VALUE OF ZERO

ND - NO DATA

NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TEMAGAMI
 PLANT : NORTH GOWARD LAGOON
 WORKS NUMBER : 120000783
 TREATMENT : AERATED CELL PLUS LAGOON
 : REGULATED DISCHARGE VOLUME
 : EFFLUENT POLISHING
 : 0.39 (1000 M3)
 DESIGN CAPACITY : 0.39 (1000 M3)

REGION : NORTHEAST
 DISTRICT : NIPPISSING
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NET LAKE
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 350

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.03	0.31	0.51	0.06	0.33	0.41	0.39	0.35	0.20	0.17	0.20	0.19	0.26	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	52.0	35.0	82.0	22.0	30.0	22.0	22.0	114.0	36.0	41.0	140.0	155.0	62.6	
EFFLUENT (MG/L)	6.5	6.5	6.8	8.0	16.0	8.5	ND	41.0	4.2	33.0	19.0	4.5	14.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	0.19	2.01	3.46	0.48	5.28	3.48	ND	14.35	0.84	5.61	3.80	0.65	3.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	30.0	30.0	60.0	75.0	70.0	8.0	30.0	75.0	50.0	ND	150.0	420.0	90.7	
EFFLUENT (MG/L)	3.0	5.0	5.0	10.0	20.0	10.0	10.0	50.0	8.0	25.0	35.0	20.0	16.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	0.09	1.55	2.55	0.60	6.60	4.10	3.90	17.50	1.60	4.25	7.00	3.80	4.37	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	4.6	2.2	1.4	1.9	1.8	1.8	7.1	4.0	2.3	5.6	3.5	3.2	
EFFLUENT (MG/L)	2.4	3.1	3.2	0.9	1.3	1.0	1.0	2.4	1.9	2.2	2.8	0.7	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.07	0.96	1.63	0.05	0.42	0.41	0.39	0.84	0.38	0.37	0.56	0.13	0.49	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 NA - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TENAGAMI
 PLANT : TENAGAMI LAGOON
 WORKS NUMBER : 110002327
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 DESIGN CAPACITY : 0.11 (1000 M3)

REGION : NORTHEAST
 DISTRICT : NIPPISSING
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : SNAKE ISLAND LAKE
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 440

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD ₅														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	NO DISCHARGE	
SS	25.0 MG/L	NO DISCHARGE	
TP	1.0 MG/L	NO DISCHARGE	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES
 FACILITY EXPANSION/UPGRADING - FINAL DESIGN PHASE

START DATE : 1989/04
 END DATE :
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THESSALON LAGOON
 PLANT : THESSALON LAGOON
 WORKS NUMBER : 110002434
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 :
 :
 DESIGN CAPACITY : 1.23 (1000 M3)

REGION : NORTHEAST
 DISTRICT : ALGOMA
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : THESSALON RIVER
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.08	1.09	1.23	1.92	1.33	1.12	1.17	1.14	1.02	1.01	1.03	0.95	1.17	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	345.00	ND	345.00	
BOD5														
INFLUENT (MG/L)	53.0	42.0	40.0	32.0	49.0	30.0	11.0	17.0	50.0	24.0	40.0	ND	35.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND	8.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.34	ND	9.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	29.0	45.0	33.0	50.0	45.0	25.0	20.0	40.0	100.0	30.0	50.0	ND	42.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	ND	9.2	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.47	ND	10.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	4.5	2.6	2.9	2.7	6.4	2.4	2.5	3.1	3.2	3.5	ND	3.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	1.8	
CONCENTRATION LIMIT (MG/L)													2.11	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.85	ND	2.11	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TIMMINS
PLANT : BOB'S LAKE LAGOON
WORKS NUMBER : 120000275
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BOB'S CK TO PORCUPINE L.
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 170

DESIGN CAPACITY : 0.58 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BODS														
INFLUENT (MG/L)	255.0	860.0	150.0	62.0	54.0	96.0	95.0	84.0	40.0	34.0	100.0	ND	166.4	
EFFLUENT (MG/L)	49.0	70.0	84.0	54.0	15.0	12.0	11.0	23.0	13.0	8.4	16.0	ND	32.3*	
CONCENTRATION LIMIT (MG/L)													30.6	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	300.0	2,160.0	37.0	110.0	100.0	260.0	95.0	130.0	60.0	60.0	140.0	ND	313.8	
EFFLUENT (MG/L)	35.0	25.0	30.0	25.0	20.0	50.0	4.0	20.0	10.0	7.0	25.0	ND	22.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	13.7	26.0	15.0	3.7	5.7	5.3	4.1	5.2	3.4	4.9	3.2	ND	8.2	
EFFLUENT (MG/L)	6.3	7.0	8.3	4.7	2.0	2.5	2.1	2.2	3.6	3.5	3.5	ND	4.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY	COMPLIES WITH CONC
PARAM CRITERIA	
BOD 30.0 MG/L	NO
SS 40.0 MG/L	YES
TP	NA

REMEDIAL MEASURES

NO ACTION - FUNDING APPLICATION REJECTED

START DATE END DATE ANTICIPATED
COMPLIANCE

1992

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TIMMINS
PLANT : MATTAGAMI WPCP
WORKS NUMBER : 110000766
TREATMENT : PRIMARY

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL RIVER
WATERCOURSE : MATTAGAMI RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 33,000

DESIGN CAPACITY : 34.09 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	15.60	15.00	17.00	26.20	29.20	24.00	21.30	24.10	18.60	18.40	19.30	15.60	20.36	
BOD5														
INFLUENT (MG/L)	80.0	98.0	98.0	72.0	62.0	56.0	27.0	46.0	66.0	72.0	84.0	128.0	74.1	
EFFLUENT (MG/L)	78.0	68.0	67.0	24.0	30.0	43.0	30.0	13.0	15.0	41.0	32.0	67.0	42.3	
LOADING (KG/D)	1216.80	1020.00	1139.00	628.80	876.00	1032.00	639.00	313.30	279.00	754.40	617.60	1045.20	861.23	
PERCENT REMOVAL	03	31	32	67	52	23	ND	72	77	43	62	48	43	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	127.0	191.0	157.0	113.0	167.0	132.0	180.0	104.0	172.0	163.0	191.0	159.0	154.7	
EFFLUENT (MG/L)	54.5	40.6	43.0	27.0	45.2	39.3	33.5	28.2	38.3	40.3	55.0	41.1	40.5	
LOADING (KG/D)	850.20	609.00	731.00	707.40	1319.84	943.20	713.55	679.62	712.38	741.52	1061.50	641.16	824.58	
PERCENT REMOVAL	57	79	73	76	73	70	81	73	78	75	71	74	74	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	5.1	7.2	3.6	4.9	3.8	3.7	2.9	4.2	4.2	41.0	4.7	7.5	
EFFLUENT (MG/L)	3.7	3.1	3.8	1.1	ND	ND	1.1	7.3	0.7	1.1	7.3	2.4	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	57.72	46.50	64.60	28.82	ND	ND	23.43	175.93	13.02	20.24	140.89	37.44	65.15	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30%	YES	
SS	50%	YES	
TP	NA	NA	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TIMMINS
 PLANT : WHITNEY & TISDALE WPCP
 WORKS NUMBER : 110001391
 TREATMENT : CONTACT STABILIZATION
 :
 :
 :
 DESIGN CAPACITY : 6.81 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : PORCUPINE RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 7,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.66	2.55	3.29	7.03	6.44	4.93	3.66	4.63	3.39	3.52	4.08	2.67	4.07	
BOD5														
INFLUENT (MG/L)	56.0	92.0	82.0	114.0	56.0	80.0	24.0	32.0	115.0	84.0	82.0	94.0	75.9	
EFFLUENT (MG/L)	16.0	13.0	13.0	8.6	9.8	3.2	1.6	9.2	7.0	2.5	3.0	14.0	8.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.56	33.15	42.77	60.45	63.11	15.77	5.85	42.59	23.73	8.80	12.24	37.38	34.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	50.0	50.0	90.0	150.0	90.0	95.0	15.0	40.0	65.0	100.0	150.0	70.0	80.4	
EFFLUENT (MG/L)	15.0	10.0	10.0	10.0	15.0	10.0	7.0	7.0	8.0	5.2	8.0	7.0	9.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	39.90	25.50	32.90	70.30	96.60	49.30	25.62	32.41	27.12	18.30	32.64	18.69	38.26	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	4.5	6.4	4.9	3.4	4.6	2.2	2.0	4.4	6.6	4.6	6.2	4.4	
EFFLUENT (MG/L)	8.0	4.1	7.3	2.0	1.5	2.3	1.8	2.6	2.4	3.6	3.0	3.9	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	21.28	10.45	24.01	14.06	9.66	11.33	6.58	12.03	8.13	12.67	12.24	10.41	14.25	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VAL RITA-HARTY
 PLANT : HARTY LAGOON
 WORKS NUMBER : 120003316
 TREATMENT : CONVENTIONAL LAGOON SEASONAL
 : PHOSPHORUS REMOVAL - BATCH
 :
 DESIGN CAPACITY : 0.09 (1000 M3)

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NO NAME CREEK
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 140

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3) LAGOON DISCHARGE	ND ND	ND ND	ND ND	ND ND	ND 10.20	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	10.20	
BOD5 INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	110.0 ND ND ND	165.0 ND ND ND	220.0 ND ND ND	130.0 ND ND ND	135.0 5.4 ND ND	80.0 ND ND ND	ND ND ND ND	285.0 ND ND ND	180.0 ND ND ND	143.0 3.2 ND ND	125.0 ND ND ND	225.0 ND ND ND	163.5 4.3 25.0	
SUSPENDED SOLIDS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	140.0 ND ND ND	130.0 ND ND ND	130.0 ND ND ND	130.0 ND ND ND	130.0 15.0 ND ND	95.0 ND ND ND	ND ND ND ND	200.0 ND ND ND	160.0 ND ND ND	340.0 14.7 ND ND	270.0 ND ND ND	130.0 ND ND ND	168.6 14.9 25.0	
TOTAL PHOSPHOROUS INFLUENT (MG/L) EFFLUENT (MG/L) CONCENTRATION LIMIT (MG/L) LOADING (KG/D)	7.7 ND 1.0 ND	7.5 ND 1.0 ND	12.0 ND 1.0 ND	4.8 ND 1.0 ND	5.2 2.0* 1.0 ND	3.9 ND 1.0 ND	ND ND 1.0 ND	25.5 ND 1.0 ND	7.3 ND 1.0 ND	6.6 0.6 1.0 ND	4.7 ND 1.0 ND	6.2 ND 1.0 ND	6.3 1.3	1

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	YES
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	NO	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: VAL-RITA-HARTY
: VAL-RITA LAGOON
: 110002318
: CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : UNNAMED CK. TO KAPUSK. RIV
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 580

DESIGN CAPACITY

: 0.53 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.20	
LAGOON DISCHARGE	ND	ND	ND	ND	10.20	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	165.0	100.0	275.0	22.0	ND	44.0	ND	90.0	150.0	116.0	240.0	245.0	144.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.7	ND	ND	ND	ND	1.3	ND	ND	4.0	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	180.0	420.0	340.0	55.0	ND	90.0	ND	110.0	120.0	260.0	340.0	330.0	224.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	16.7	ND	ND	ND	ND	5.5	ND	ND	11.1	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	5.1	9.8	2.0	ND	3.2	ND	5.6	6.5	6.7	8.0	7.7	6.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.5	ND	ND	ND	ND	0.1	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: VALLEY EAST
: HAMNER, VAL-CARON, VAL-THERESE WPCP
: 110001541
: CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
: 11.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL RIVER
WATERCOURSE : VERMILION RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 17,337

DESIGN CAPACITY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.87	7.35	8.11	16.83	9.89	10.00	5.12	5.17	5.19	6.00	6.77	5.54	7.82	
BOD5 INFLUENT (MG/L)	100.0	132.0	127.0	36.0	64.0	49.0	ND	79.0	172.0	95.0	135.0	137.0	102.4	
EFFLUENT (MG/L)	5.8	5.5	4.7	10.9	13.0	18.2	ND	7.8	13.3	7.0	15.8	10.6	10.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	45.64	40.42	38.11	183.44	128.57	182.00	ND	40.32	69.02	42.00	106.96	58.72	79.76	
SUSPENDED SOLIDS INFLUENT (MG/L)	155.0	154.0	135.0	98.0	106.0	110.0	101.0	129.0	176.0	155.0	147.0	102.0	130.7	
EFFLUENT (MG/L)	3.2	2.7	4.0	15.6	9.5	6.8	4.7	4.4	5.2	6.4	4.8	2.4	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.18	19.84	32.44	262.54	93.95	68.00	24.06	22.74	26.98	38.40	32.49	13.29	45.36	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.3	5.0	6.2	3.5	3.8	3.8	5.6	5.7	5.7	5.7	4.0	4.0	4.8	
EFFLUENT (MG/L)	0.5	0.5	0.5	0.8	0.5	0.5	0.3	0.9	0.8	0.5	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	3.93	3.67	4.05	13.46	4.94	5.00	4.09	4.65	4.15	3.00	4.06	3.32	4.69	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	1.0 MG/L	YES	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALDEN
PLANT : LIVELY WPCP
WORKS NUMBER : 120001185
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MEATBIRD CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,669

DESIGN CAPACITY : 1.59 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.32	1.18	1.42	1.81	1.65	1.70	1.37	1.53	1.33	1.36	1.57	1.50	1.48	
BOD5														
INFLUENT (MG/L)	168.0	119.0	120.0	56.0	65.0	63.0	65.0	86.0	87.0	468.0	91.0	60.0	120.7	
EFFLUENT (MG/L)	7.3	6.1	9.6	8.1	7.9	3.5	2.3	15.9	3.0	5.5	15.7	11.0	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.63	7.19	13.63	14.66	13.03	5.95	3.15	24.32	3.99	7.48	24.64	16.50	11.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	111.0	121.0	83.0	112.0	124.0	82.0	100.0	122.0	384.0	136.0	134.0	136.3	
EFFLUENT (MG/L)	3.6	2.1	8.9	7.7	5.5	2.6	2.6	2.7	5.7	10.2	9.5	7.3	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.75	2.47	12.63	13.93	9.07	4.42	3.56	4.13	7.58	13.87	14.91	10.95	8.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	7.1	5.7	3.3	5.0	3.5	4.5	5.7	6.6	9.4	5.7	2.7	5.4	
EFFLUENT (MG/L)	3.3	3.9	2.7	1.4	2.6	2.6	3.1	3.0	3.3	3.2	2.7	3.1	2.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.35	4.60	3.83	2.53	4.29	4.42	4.24	4.59	4.38	4.35	4.23	4.65	4.29	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

ANTICIPATED

START DATE END DATE COMPLIANCE

1990/10 1991/01 1991/04

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALDEN
PLANT : MIKKOLA WPCP
WORKS NUMBER : 120001531
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : JUNCTION CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,693

DESIGN CAPACITY : 4.36 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.77	1.72	2.52	3.09	1.94	1.84	1.33	1.33	1.34	1.33	1.60	2.25	1.84	
BOD5														
INFLUENT (MG/L)	49.0	64.0	44.0	21.0	34.0	52.0	70.0	84.0	95.0	86.0	180.0	81.0	71.7	
EFFLUENT (MG/L)	9.0	12.0	12.5	6.2	5.6	4.8	2.6	7.0	2.1	3.4	8.3	5.3	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.93	20.64	31.50	19.15	10.86	8.83	3.45	9.31	2.81	4.52	13.28	11.92	12.14	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	74.0	94.0	68.0	59.0	74.0	95.0	120.0	121.0	126.0	158.0	103.0	65.0	96.4	
EFFLUENT (MG/L)	7.3	10.0	13.5	8.6	5.2	3.8	4.3	6.6	7.3	11.5	18.4	11.6	9.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.92	17.20	34.02	26.57	10.08	6.99	5.71	8.77	9.78	15.29	29.44	26.10	16.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	4.6	2.9	1.4	3.1	4.1	6.3	5.8	6.7	7.8	3.6	4.3	4.5	
EFFLUENT (MG/L)	3.1	3.5	2.1	1.3	2.6	2.8	4.0	4.6	1.4	1.1	1.0	0.7	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.48	6.02	5.29	4.01	5.04	5.15	5.32	6.11	1.87	1.46	1.60	1.57	4.42	

SUMMARY

PARAM CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP NA NA

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

START DATE 1989/09
END DATE 1990/04
COMPLIANCE 1990/04

ANTICIPATED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WEBBWOOD REGION : NORTHEAST
 PLANT : WEBBWOOD LAGOON DISTRICT : SUDBURY DIST.
 WORKS NUMBER : 110001881 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : GOUGH CREEK
 : MINOR BASIN : HURON
 : MAJOR BASIN : GREAT LAKES
 DESIGN CAPACITY : 0.34 (1000 M3) POPULATION SERVED : 460

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.10	0.10	0.16	0.17	0.11	0.12	0.10	0.09	0.10	0.09	0.09	0.09	0.11	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	165.0	183.0	73.0	51.0	81.0	143.0	108.0	190.0	155.0	124.0	190.0	365.0	152.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	9.2	7.0	1.2	12.3	27.0	ND	11.3	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	0.63	0.12	1.10	2.43	ND	30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	0.92	0.63	0.12	1.10	2.43	ND	1.24	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	103.0	145.0	85.0	53.0	63.0	93.0	53.0	100.0	65.0	113.0	130.0	160.0	96.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	10.5	15.0	10.0	37.5	30.0	ND	20.6	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	1.35	1.00	3.37	2.70	ND	40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	1.05	1.35	1.00	3.37	2.70	ND	2.27	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.4	15.5	5.5	4.4	7.7	11.5	7.2	15.1	10.2	10.2	11.8	14.4	10.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	5.4	5.0	5.8	3.9	2.5	ND	4.5	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	0.54	0.45	0.58	0.35	0.22	ND	0.50	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	0.54	0.45	0.58	0.35	0.22	ND	0.50	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

:	MUNICIPALITY
:	PLANT
:	WORKS NUMBER
:	TREATMENT
:	
:	WHITE RIVER
:	WHITE RIVER LAGOON
:	110002522
:	CONVENTIONAL LAGOON SEASONAL
:	
:	
:	DESIGN CAPACITY
:	0.00 (1000 M3)

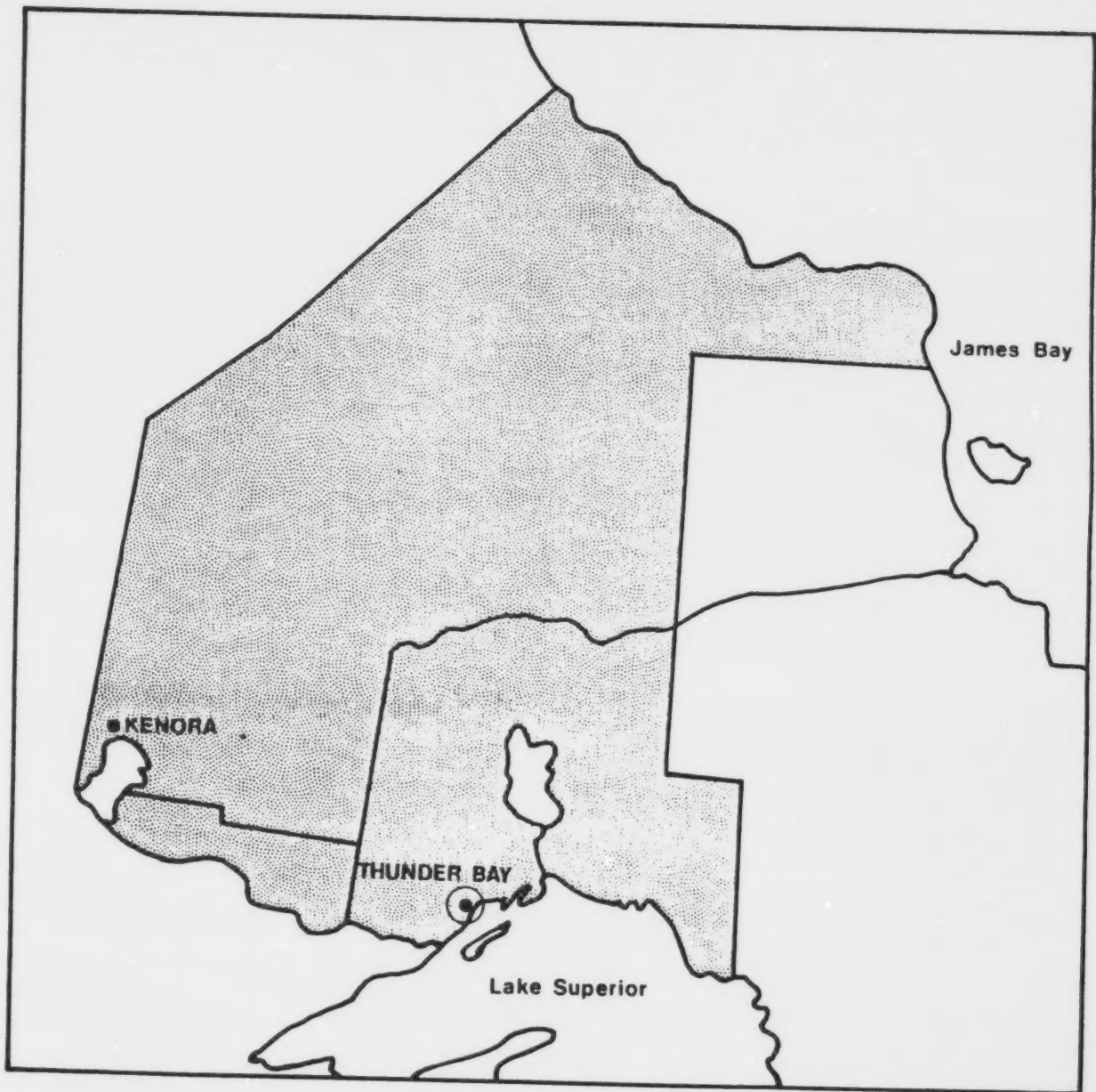
REGION	:	NORTHEAST
DISTRICT	:	ALGOMA
OPERATING AUTHORITY	:	MINISTRY OF T
WATERCOURSE	:	SMALL CR.TO W
MINOR BASIN	:	SUPERIOR
MAJOR BASIN	:	GREAT LAKES
POPULATION SERVED	:	1,000

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PARAM	COMPLIES	
	CRITERIA	WITH CONC
80D	30.0 MG/L	NO DISCHARGE
SS	40.0 MG/L	NO DISCHARGE
P	NA	NO DISCHARGE

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED



Northwestern Region

⑥



Ministry
of the
Environment

Ontario

REGIONAL OFFICE

Thunder Bay
435 James St. South
P.O. Box 5000
P7C 5G8
(807) 475-1205

DISTRICT OFFICES

Kenora
808 Robertson St.
P9N 1X9
(807) 468-5578

Thunder Bay
435 James St. South
P.O. Box 5000
P7C 5G8
(807) 475-1315

NORTHWEST SUMMARY - 1989

Treatment Type	Number			Design Capacity (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	1	3	4	9.09	112.01	121.11
Conventional Activated Sludge	0	1	1	-	2.27	2.27
Contact Stabilization	1	2	3	2.45	25.00	27.45
Extended Aeration	10	1	11	23.13	0.55	23.68
Communal Septic Tank	1	0	1	0.27	-	0.27
Aerated Lagoon	0	1	1	-	4.10	4.10
Conventional Lagoon Seasonal	3	0	3	2.03	-	2.03
Exfiltration Lagoon	1	2	3	1.36	1.36	2.72
TOTALS	17	10	27	38.33	145.29	183.62

1000M3/D: Thousands of cubic meters per day
 ADF: Average Daily Flow

NORTHWEST SUMMARY - 1989

Treatment Type	Number			Annual ADF (1000M3/D)		
	Min	Mun	Tot	Ministry	Municipal	Total
Primary	1	3	3	7.35	80.71	88.06
Conventional Activated Sludge	0	1	1	0.00	1.78	1.78
Contact Stabilization	1	2	3	2.10	14.99	17.09
Extended Aeration	10	1	11	14.16	0.26	14.42
Communal Septic Tank	1	0	1	0.10	0.00	0.10
Aerated Lagoon	0	1	1	0.00	3.08	3.08
Conventional Lagoon Seasonal	3	0	3	1.63	0.00	1.63
Exfiltration Lagoon	1	2	3	0.24	0.00	0.24
TOTALS	17	10	27	25.58	100.82	126.40

1000M3/D: Thousands of cubic meters per day

ADF: Average Daily Flow

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ATIKOKAN
 PLANT : ATIKOKAN WPCP
 WORKS NUMBER : 110001523
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 :
 DESIGN CAPACITY : 4.06 (1000 M3)

REGION : NORTHWEST
 DISTRICT : RAINY RIVER
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : ATIKOKAN RIVER
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER
 POPULATION SERVED : 4,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.42	2.68	2.95	4.89	3.25	3.39	2.79	2.56	3.07	2.56	2.12	1.94	2.89	
BOD5														
INFLUENT (MG/L)	70.0	65.0	62.0	52.0	44.0	38.0	65.0	45.0	69.0	45.0	80.0	112.0	62.3	
EFFLUENT (MG/L)	3.5	8.7	7.7	2.6	3.2	2.0	1.5	5.2	1.9	2.0	2.2	8.7	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.47	23.31	22.71	12.71	10.40	6.78	4.18	13.31	5.83	5.12	4.66	16.87	11.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	87.0	80.0	132.0	100.0	66.0	50.0	48.0	43.0	63.0	60.0	93.0	130.0	79.3	
EFFLUENT (MG/L)	17.5	35.0	43.2	25.0	23.3	8.5	6.0	7.5	12.5	10.0	12.0	10.9	17.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.35	93.80	127.44	122.25	75.72	28.81	16.74	19.20	38.37	25.60	25.44	21.14	50.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	2.8	2.8	2.9	2.5	2.3	3.6	2.8	3.3	3.1	3.5	3.9	3.1	
EFFLUENT (MG/L)	0.6	1.1*	1.1*	0.7	0.7	0.3	0.3	0.3	0.5	0.5	0.5	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
LOADING (KG/D)	1.45	2.94	3.24	3.42	2.27	1.01	0.83	0.76	1.53	1.28	1.06	1.35	1.73	

PARAM	CRITERIA	COMPLIES
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
 OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED
 SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES
 FACILITY EXPANSION/UPGRADING - UPGRADING SECONDARY CLARIFIERS

START DATE	END DATE	ANTICIPATED COMPLIANCE
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1991	1990	
1989	1989	1990
1989	1989	1990

MUNICIPALITY	: ATWOOD
PLANT	: RAINY RIVER LAGOON
WORKS NUMBER	: 110002292
TREATMENT	: CONVENTIONAL LAGOON SEASONAL
	:
	:
DESIGN CAPACITY	: 0.99 (1000 M3)

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RAINY RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 975

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.51	0.52	0.63	1.14	0.69	1.07	1.00	1.00	0.53	0.49	0.57	0.57	0.73	
LAGOON DISCHARGE	ND	ND	ND	ND	54.64	80.44	ND	ND	18.75	23.88	42.65	ND	44.07	
BOD5														
INFLUENT (MG/L)	99.0	165.0	67.0	83.0	111.0	67.0	56.0	56.0	96.0	106.0	183.0	140.0	102.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	9.8	9.0	ND	ND	3.9	2.0	4.8	ND	5.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	6.76	9.63	ND	ND	2.06	0.98	2.73	ND	4.31	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	140.0	100.0	100.0	245.0	85.0	50.0	50.0	95.0	110.0	125.0	180.0	116.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	14.6	15.4	ND	ND	3.3	1.7	3.8	ND	7.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	10.07	16.47	ND	ND	1.74	0.83	2.16	ND	5.69	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.8	3.3	3.6	5.4	3.6	3.3	3.3	3.5	6.0	5.1	4.6	4.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.4	1.7	ND	ND	0.3	0.3	1.3	ND	1.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.96	1.01	ND	ND	0.15	0.14	0.74	ND	0.73	

PARAM	SUMMARY	
	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:

- BOD - ASSESSED ANNUALLY
- SS - ASSESSED ANNUALLY
- TP - HAS NO CRITERIA
- WQ - EXCEEDS EFFLUENT CRITERIA
- SPACE (EG. " ") INDICATES A VALUE OF ZERO
- ND - NO DATA
- NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW

	<u>START DATE</u>	<u>END DATE</u>	<u>ANTICIPATED COMPLIANCE</u>
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1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: BEARDMORE	REGION	: NORTHWEST
PLANT	: BEARDMORE LAGOON	DISTRICT	: THUNDER BAY
WORKS NUMBER	: 110002309	OPERATING AUTHORITY	: MINISTRY OF THE ENVIRONMENT
TREATMENT	: EXFILTRATION LAGOON	WATERCOURSE	: NO DISC. TO SURFACE WATER
	:	MINOR BASIN	: SUPERIOR
DESIGN CAPACITY	: 1.36 (1000 M3)	MAJOR BASIN	: GREAT LAKES
	:	POPULATION SERVED	: 570

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.20	0.19	0.25	0.44	0.29	ND	0.22	0.20	0.20	0.21	0.22	0.24	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	145.0	126.0	136.0	140.0	42.0	34.0	ND	155.0	130.0	125.0	210.0	170.0	128.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	95.0	80.0	100.0	70.0	90.0	ND	90.0	100.0	100.0	100.0	90.0	93.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	7.5	6.1	6.3	1.9	2.0	ND	6.5	7.5	10.9	6.7	7.0	6.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	DISCHARGE
BOD	NA	NO DIRECT	DISCHARGE
SS	NA	NO DIRECT	DISCHARGE
TP	NA	NO DIRECT	DISCHARGE

NOTE:
 BOD - HAS NO CRITERIA
 SS - HAS NO CRITERIA
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CARAMAT
 PLANT : CARAMAT
 WORKS NUMBER : 120003085
 TREATMENT : EXFILTRATION LAGOON
 : EXFILTRATION
 :
 DESIGN CAPACITY : 0.05 (1000 M3)

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NO DISC. TO SURFACE WATER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 125

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTE:

BOD - HAS NO CRITERIA
 SS - HAS NO CRITERIA
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	NA	NO DISCHARGE	
SS	NA	NO DISCHARGE	
TP	NA	NO DISCHARGE	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DRYDEN
 PLANT : DRYDEN WPCP
 WORKS NUMBER : 120000248
 TREATMENT : CONTACT STABILIZATION
 :
 :
 :
 DESIGN CAPACITY : 6.81 (1000 M3)

REGION : NORTHWEST
 DISTRICT : KENORA
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WABIGOON RIVER
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER
 POPULATION SERVED : 6,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.19	3.38	3.50	5.62	4.50	5.49	4.83	4.56	3.64	3.55	3.23	3.15	4.05	
BOD5														
INFLUENT (MG/L)	130.0	123.0	120.0	95.0	88.0	112.0	84.0	86.0	120.0	78.0	190.0	72.0	108.2	
EFFLUENT (MG/L)	9.3	15.0	12.0	17.0	14.0	6.4	8.4	6.7	4.3	2.9	4.4	9.0	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.66	50.70	42.00	95.54	63.00	35.13	40.57	30.55	15.65	10.29	14.21	28.35	36.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	160.0	130.0	130.0	210.0	110.0	130.0	70.0	75.0	500.0	160.0	120.0	160.0	162.9	
EFFLUENT (MG/L)	6.0	4.0	7.0	10.0	5.0	ND	20.0	20.0	ND	15.0	2.0	8.0	9.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	19.14	13.52	24.50	56.20	22.50	ND	96.60	91.20	ND	53.25	6.46	25.20	39.29	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	5.8	6.3	4.3	4.0	5.6	4.7	5.4	5.9	4.4	5.6	4.2	5.2	
EFFLUENT (MG/L)	ND	0.3	0.6	0.4	0.5	0.5	1.2	0.6	0.7	0.8	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)													0.6	
LOADING (KG/D)	ND	1.01	2.10	2.24	2.25	2.74	5.79	2.73	2.54	2.84	1.93	1.89	2.43	

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 # - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAR FALLS REGION : NORTHWEST
 PLANT : EAR FALLS WPCP DISTRICT : KENORA
 WORKS NUMBER : 110001006 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 TREATMENT : EXTENDED AERATION WATERCOURSE : ENGLISH RIVER
 : CONVERTIBLE OPERATING MODE MINOR BASIN : LAKE WINNIPEG EAST
 : MAJOR BASIN : NELSON RIVER
 DESIGN CAPACITY : 2.86 (1000 M3) POPULATION SERVED : 1,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.51	1.52	1.36	1.46	1.40	1.34	1.36	1.36	1.26	1.25	1.27	1.28	1.36	
BOD5														
INFLUENT (MG/L)	39.0	75.0	73.0	31.0	52.0	53.0	58.0	31.0	60.0	194.0	86.0	68.0	68.3	
EFFLUENT (MG/L)	2.4	2.4	2.5	3.4	2.5	2.2	1.2	0.8	1.8	1.8	1.5	1.8	2.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.62	3.64	3.40	4.96	3.50	2.94	1.63	1.08	2.26	2.25	1.90	2.30	2.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	355.0	73.0	118.0	110.0	65.0	130.0	30.0	510.0	263.0	293.0	205.0	65.0	184.8	
EFFLUENT (MG/L)	15.0	12.0	9.0	22.5	8.0	7.5	4.0	7.0	6.3	15.5	8.0	5.0	10.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.65	18.24	12.24	32.85	11.20	10.05	5.44	9.52	7.93	19.37	10.16	6.40	13.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.7	3.2	3.0	1.1	2.6	3.3	3.0	ND	3.7	6.2	4.5	2.9	3.3	
EFFLUENT (MG/L)	0.5	0.5	0.5	0.7	0.7	0.5	0.3	0.8	0.5	0.7	0.3	0.4	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.75	0.76	0.68	1.02	0.67	0.67	0.40	1.08	0.63	0.87	0.38	0.51	0.68	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	PLANT	WORKS NUMBER	TREATMENT	DESIGN CAPACITY
: EMO	: EMO	: 110001015	: CONVENTIONAL LAGOON	: 0.27 (1000 m ³)
: EMO	: LAGOON	:	:	:
: 110001015	:	:	:	:
: CONVENTIONAL	:	:	:	:
: LAGOON	:	:	:	:
: SEASONAL	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RAINY RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)														
LAGOON DISCHARGE	0.41 ND	0.38 ND	0.44 ND	0.72 0.52	0.53 21.58	0.65 71.92	0.53 ND	0.60 ND	0.41 ND	0.41 ND	0.44 73.70	0.35 ND	0.49 41.93	
BOD5														
INFLUENT (MG/L)	156.0	46.0	63.0	118.0	29.0	86.0	55.0	89.0	131.0	134.0	163.0	172.0	103.5	
EFFLUENT (MG/L)	ND	ND	ND	20.0	14.1	22.5	ND	ND	ND	4.2	7.1	ND	13.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	14.40	7.47	14.62	ND	ND	ND	1.72	3.12	ND	6.66	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	177.0	130.0	80.0	138.0	163.0	90.0	73.0	190.0	140.0	130.0	260.0	155.0	143.8	
EFFLUENT (MG/L)	ND	ND	ND	25.0	18.7	58.3	ND	ND	ND	1.0	5.5	ND	21.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	18.00	9.91	37.89	ND	ND	ND	0.41	2.42	ND	10.63	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	7.7	5.1	3.9	6.3	1.6	4.7	4.1	5.7	5.9	7.4	6.3	6.2	5.4	
EFFLUENT (MG/L)	ND	ND	ND	1.9	1.8	1.2	ND	ND	ND	1.9	1.4	ND	1.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.36	0.95	0.78	ND	ND	ND	0.77	0.61	ND	0.78	

PARAM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED
FACILITY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
12/1/2010	12/31/2010	100%
1/1/2011	1/31/2011	100%
2/1/2011	2/28/2011	100%
3/1/2011	3/31/2011	100%
4/1/2011	4/30/2011	100%
5/1/2011	5/31/2011	100%
6/1/2011	6/30/2011	100%
7/1/2011	7/31/2011	100%
8/1/2011	8/31/2011	100%
9/1/2011	9/30/2011	100%
10/1/2011	10/31/2011	100%
11/1/2011	11/30/2011	100%
12/1/2011	12/31/2011	100%
1/1/2012	1/31/2012	100%
2/1/2012	2/28/2012	100%
3/1/2012	3/31/2012	100%
4/1/2012	4/30/2012	100%
5/1/2012	5/31/2012	100%
6/1/2012	6/30/2012	100%
7/1/2012	7/31/2012	100%
8/1/2012	8/31/2012	100%
9/1/2012	9/30/2012	100%
10/1/2012	10/31/2012	100%
11/1/2012	11/30/2012	100%
12/1/2012	12/31/2012	100%
1/1/2013	1/31/2013	100%
2/1/2013	2/28/2013	100%
3/1/2013	3/31/2013	100%
4/1/2013	4/30/2013	100%
5/1/2013	5/31/2013	100%
6/1/2013	6/30/2013	100%
7/1/2013	7/31/2013	100%
8/1/2013	8/31/2013	100%
9/1/2013	9/30/2013	100%
10/1/2013	10/31/2013	100%
11/1/2013	11/30/2013	100%
12/1/2013	12/31/2013	100%
1/1/2014	1/31/2014	100%
2/1/2014	2/28/2014	100%
3/1/2014	3/31/2014	100%
4/1/2014	4/30/2014	100%
5/1/2014	5/31/2014	100%
6/1/2014	6/30/2014	100%
7/1/2014	7/31/2014	100%
8/1/2014	8/31/2014	100%
9/1/2014	9/30/2014	100%
10/1/2014	10/31/2014	100%
11/1/2014	11/30/2014	100%
12/1/2014	12/31/2014	100%
1/1/2015	1/31/2015	100%
2/1/2015	2/28/2015	100%
3/1/2015	3/31/2015	100%
4/1/2015	4/30/2015	100%
5/1/2015	5/31/2015	100%
6/1/2015	6/30/2015	100%
7/1/2015	7/31/2015	100%
8/1/2015	8/31/2015	100%
9/1/2015	9/30/2015	100%
10/1/2015	10/31/2015	100%
11/1/2015	11/30/2015	100%
12/1/2015	12/31/2015	100%
1/1/2016	1/31/2016	100%
2/1/2016	2/28/2016	100%
3/1/2016	3/31/2016	100%
4/1/2016	4/30/2016	100%
5/1/2016	5/31/2016	100%
6/1/2016	6/30/2016	100%
7/1/2016	7/31/2016	100%
8/1/2016	8/31/2016	100%
9/1/2016	9/30/2016	100%
10/1/2016	10/31/2016	100%
11/1/2016	11/30/2016	100%
12/1/2016	12/31/2016	100%
1/1/2017	1/31/2017	100%
2/1/2017	2/28/2017	100%
3/1/2017	3/31/2017	100%
4/1/2017	4/30/2017	100%
5/1/2017	5/31/2017	100%
6/1/2017	6/30/2017	100%
7/1/2017	7/31/2017	100%
8/1/2017	8/31/2017	100%
9/1/2017	9/30/2017	100%
10/1/2017	10/31/2017	100%
11/1/2017	11/30/2017	100%
12/1/2017	12/31/2017	100%
1/1/2018	1/31/2018	100%
2/1/2018	2/28/2018	100%
3/1/2018	3/31/2018	100%
4/1/2018	4/30/2018	100%

MUNICIPALITY	:	FORT FRANCES
PLANT	:	FORT FRANCES WPCP
WORKS NUMBER	:	110000258
TREATMENT	:	PRIMARY
DESIGN CAPACITY	:	9.09 (1000

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RAINY RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 8,750

DESIGN CAPACITY	9.09 (1000 M3)
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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.51	5.86	6.34	9.58	7.99	9.95	9.00	8.10	7.05	6.63	6.28	5.87	7.35	
BOD5														
INFLUENT (MG/L)	66.0	60.0	79.0	42.0	40.0	63.0	50.0	54.0	72.0	65.0	86.0	98.0	64.6	
EFFLUENT (MG/L)	39.0	53.5	42.0	30.0	44.5	35.5	36.0	24.0	35.0	40.5	73.0	75.0	44.0	
LOADING (KG/D)	214.89	313.51	266.28	287.40	355.55	353.22	324.00	194.40	246.75	268.51	458.44	440.25	323.40	
PERCENT REMOVAL	41	11	47	29	ND	44	28	56	51	38	15	23	32	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	153.0	98.0	175.0	90.0	70.0	115.0	95.0	140.0	118.0	118.0	163.0	275.0	134.2	
EFFLUENT (MG/L)	53.7	75.0	65.0	42.5	52.5	57.5	37.5	28.3	40.0	70.0	30.0	75.0	52.3	
LOADING (KG/D)	295.88	439.50	412.10	407.15	419.47	572.12	337.50	229.23	282.00	464.10	188.40	440.25	304.41	
PERCENT REMOVAL	65	23	63	53	25	50	61	80	66	41	82	73	61	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	3.1	3.3	1.9	2.6	3.0	2.4	2.7	3.1	4.8	3.9	4.0	3.2	
EFFLUENT (MG/L)	1.8	2.6	1.7	1.0	2.0	2.1	1.6	1.7	2.0	2.6	0.8	2.4	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.91	15.23	10.77	9.58	15.98	20.89	14.40	13.77	14.10	17.23	5.02	14.08	13.97	

SUMMARY	COMPLIES WITH CONC
PARM CRITERIA	

BOD - ASSESSED ANNUALLY
 SSS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES
 ND - NO DATA
 NA - NOT APPLICABLE

START DATE	END DATE	ANTICIPATED COMPLIANCE
12/1/2010	12/31/2010	100%
12/1/2011	12/31/2011	100%
12/1/2012	12/31/2012	100%
12/1/2013	12/31/2013	100%
12/1/2014	12/31/2014	100%
12/1/2015	12/31/2015	100%
12/1/2016	12/31/2016	100%
12/1/2017	12/31/2017	100%
12/1/2018	12/31/2018	100%
12/1/2019	12/31/2019	100%
12/1/2020	12/31/2020	100%
12/1/2021	12/31/2021	100%
12/1/2022	12/31/2022	100%
12/1/2023	12/31/2023	100%
12/1/2024	12/31/2024	100%
12/1/2025	12/31/2025	100%
12/1/2026	12/31/2026	100%
12/1/2027	12/31/2027	100%
12/1/2028	12/31/2028	100%
12/1/2029	12/31/2029	100%
12/1/2030	12/31/2030	100%
12/1/2031	12/31/2031	100%
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12/1/2033	12/31/2033	100%
12/1/2034	12/31/2034	100%
12/1/2035	12/31/2035	100%
12/1/2036	12/31/2036	100%
12/1/2037	12/31/2037	100%
12/1/2038	12/31/2038	100%
12/1/2039	12/31/2039	100%
12/1/2040	12/31/2040	100%
12/1/2041	12/31/2041	100%
12/1/2042	12/31/2042	100%
12/1/2043	12/31/2043	100%
12/1/2044	12/31/2044	100%
12/1/2045	12/31/2045	100%
12/1/2046	12/31/2046	100%
12/1/2047	12/31/2047	100%
12/1/2048	12/31/2048	100%
12/1/2049	12/31/2049	100%
12/1/2050	12/31/2050	100%
12/1/2051	12/31/2051	100%
12/1/2052	12/31/2052	100%
12/1/2053	12/31/2053	100%
12/1/2054	12/31/2054	100%
12/1/2055	12/31/2055	100%
12/1/2056	12/31/2056	100%
12/1/2057	12/31/2057	100%
12/1/2058	12/31/2058	100%
12/1/2059	12/31/2059	100%
12/1/2060	12/31/2060	100%
12/1/2061	12/31/2061	100%
12/1/2062	12/31/2062	100%
12/1/2063	12/31/2063	100%
12/1/2064	12/31/2064	100%
12/1/2065	12/31/2065	100%
12/1/2066	12/31/2066	100%
12/1/2067	12/31/2067	100%
12/1/2068	12/31/2068	100%
12/1/2069	12/31/2069	100%
12/1/2070	12/31/2070	100%
12/1/2071	12/31/2071	100%
12/1/2072	12/31/2072	100%
12/1/2073	12/31/2073	100%
12/1/2074	12/31/2074	100%
12/1/2075	12/31/2075	100%
12/1/2076	12/31/2076	100%
12/1/2077	12/31/2077	100%
12/1/2078	12/31/2078	100%
12/1/2079	12/31/2079	100%
12/1/2080	12/31/2080	100%
12/1/2081	12/31/2081	100%
12/1/2082	12/31/2082	100%
12/1/2083	12/31/2083	100%
12/1/2084	12/31/2084	100%
12/1/2085	12/31/2085	100%
12/1/2086	12/31/2086	100%
12/1/2087	12/31/2087	100%
12/1/2088	12/31/2088	100%
12/1/2089	12/31/2089	100%
12/1/2090	12/31/2090	100%
12/1/2091	12/31/2091	100%
12/1/2092	12/31/2092	100%
12/1/2093	12/31/2093	100%
12/1/2094	12/31/2094	100%
12/1/2095	12/31/2095	100%

REMEDIAL MEASURES

- COLLECTION SYSTEM
- SEWAGE UPGRADE UNDERWAY
- COLLECTION SYSTEM
- INFILTRATION PROBLEMS BEING CORRECTED
- COLLECTION SYSTEM
- ILLEGAL CONNECTIONS BEING ELIMINATED
- COLLECTION SYSTEM
- ENFORCING SEWER-USE BYLAWS
- FACILITY EXPANSION/UPGRADING
- PRELIMINARY DESIGN PHASE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY :
PLANT :
WORKS NUMBER :
TREATMENT :

: GERALDTON
: GERALDTON WPCP
: 110001649
: EXTENDED AERATION
:
:

DESIGN CAPACITY :
: 1.81 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE KENOGAMISIS
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 2,901

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.63	1.66	1.53	2.71	3.10	1.98	1.66	1.33	1.18	1.31	1.55	1.28	1.74	
BOD5														
INFLUENT (MG/L)	96.0	76.0	84.0	57.0	42.0	61.0	88.0	75.0	108.0	84.0	106.0	120.0	83.1	
EFFLUENT (MG/L)	3.2	5.4	4.6	3.6	10.2	3.1	2.0	1.9	2.1	2.2	1.8	2.0	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.21	8.96	7.03	9.75	31.62	6.13	3.32	2.52	2.47	2.88	2.79	2.56	6.09	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	93.0	200.0	190.0	65.0	90.0	67.0	65.0	100.0	93.0	150.0	130.0	113.6	
EFFLUENT (MG/L)	7.0	8.0	5.0	5.5	11.0	6.0	2.7	3.0	4.5	2.0	3.0	3.0	5.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.41	13.28	7.65	14.90	34.10	11.88	4.48	3.99	5.31	2.62	4.65	3.84	8.87	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.3	4.1	3.3	2.4	3.9	7.2	4.7	5.3	5.2	4.4	4.5	4.5	
EFFLUENT (MG/L)	2.7	2.7	2.5	1.4	1.0	1.8	2.4	2.9	2.9	2.9	2.1	2.3	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.40	4.48	3.82	3.79	3.10	3.56	3.98	3.85	3.42	3.79	3.25	2.94	4.00	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	GOLDEN
PLANT	:	BALMERTOWN WPCP
WORKS NUMBER	:	110003291
TREATMENT	:	EXTENDED AERATION
	:	

DESIGN CAPACITY	1.22 (1000 M3)
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REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BALMER CREEK
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 1,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.09	1.16	1.17	1.42	1.21	1.24	1.09	1.03	0.78	0.70	0.81	1.07	1.06	
BOD5														
INFLUENT (MG/L)	107.0	96.0	52.0	110.0	63.0	91.0	89.0	88.0	70.0	89.0	121.0	117.0	91.1	
EFFLUENT (MG/L)	7.5	14.0	6.8	4.2	2.5	4.0	3.1	3.0	4.0	11.2	3.9	4.7	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.17	16.24	7.95	5.96	3.02	4.96	3.37	3.09	3.12	7.84	3.15	5.02	6.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	76.0	103.0	48.0	103.0	83.0	103.0	92.0	75.0	53.0	83.0	85.0	83.0	82.3	
EFFLUENT (MG/L)	8.0	17.5	11.0	6.5	4.5	8.0	2.0	6.0	15.0	22.5	9.0	8.0	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.72	20.30	12.67	9.23	5.44	9.92	2.18	6.18	11.70	15.75	7.29	8.56	10.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	4.4	5.0	3.3	3.9	4.7	3.8	4.9	4.4	5.1	4.8	4.6	4.4	
EFFLUENT (MG/L)	2.4	1.3	1.8	0.9	1.3	1.8	1.9	2.8	3.3	3.5	2.6	2.4	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.61	1.50	2.10	1.27	1.57	2.23	2.07	2.88	2.57	2.45	2.10	2.56	2.33	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: GOLDEN
: COCHENOUR LAGOON
: 110002504
: CONVENTIONAL LAGOON SEASONAL
:
:

DESIGN CAPACITY

: 0.76 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RED LAKE
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.51	0.45	0.48	0.42	0.36	0.33	0.30	0.31	0.34	0.38	0.53	0.45	0.41	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	53.90	ND	ND	ND	ND	53.90	ND	53.90	
BOD5														
INFLUENT (MG/L)	12.0	ND	ND	ND	37.0	154.0	154.0	94.0	88.0	107.0	61.0	50.0	84.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	5.4	ND	ND	ND	ND	ND	1.5	ND	3.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	1.94	ND	ND	ND	ND	ND	0.79	ND	1.44	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	15.0	ND	ND	ND	55.0	308.0	143.0	75.0	78.0	110.0	68.0	70.0	102.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	5.0	ND	5.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	1.80	ND	ND	ND	ND	ND	2.65	ND	2.05	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.6	ND	ND	ND	1.6	7.2	7.4	7.0	4.3	6.3	3.4	2.2	4.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	0.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	0.04	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1999 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : IGNACE
 PLANT : IGNACE WPCP
 WORKS NUMBER : 110001355
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :
 DESIGN CAPACITY : 2.53 (1000 M3)

REGION : NORTHWEST
 DISTRICT : KENORA
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : AGIMAC CREEK
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER
 POPULATION SERVED : 2,285

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.39	1.47	1.65	1.78	2.30	1.84	1.89	1.47	1.33	1.38	1.26	1.34	1.59	
BOD5														
INFLUENT (MG/L)	75.0	82.0	108.0	46.0	57.0	65.0	126.0	79.0	80.0	162.0	81.0	59.0	85.0	
EFFLUENT (MG/L)	4.0	3.7	5.1	3.4	3.2	5.4	3.5	4.8	5.0	3.1	2.5	3.6	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.56	5.43	8.41	6.05	7.36	9.93	6.61	7.05	6.65	4.27	3.15	4.82	6.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	90.0	225.0	75.0	80.0	45.0	40.0	53.0	80.0	272.0	125.0	50.0	103.3	
EFFLUENT (MG/L)	12.7	15.0	12.5	12.5	13.3	9.5	10.0	10.0	9.5	20.0	10.0	12.5	12.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.65	22.05	20.62	22.25	30.59	17.48	18.90	14.70	12.63	27.60	12.60	16.75	19.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	4.1	6.7	3.1	3.2	2.9	3.1	5.0	4.1	6.8	5.0	4.2	4.4	
EFFLUENT (MG/L)	0.6	0.7	0.7	0.6	0.6	0.4	0.6	0.6	0.5	0.8	0.7	0.9	0.6	
CONCENTRATION LIMIT (MG/L)													0.6	
LOADING (KG/D)	0.83	1.02	1.15	1.06	1.38	0.73	1.13	0.88	0.66	1.10	0.88	1.20	0.95	

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - ASSESSED MONTHLY
 M - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KENORA
 PLANT : KENORA WPCP
 WORKS NUMBER : 120000239
 TREATMENT : EXT AERATION/CONT STABILIZATION
 DESIGN CAPACITY : 18.18 (1000 M3)

REGION : NORTHWEST
 DISTRICT : KENORA
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : WINNIPEG RIVER
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER
 POPULATION SERVED : 12,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	8.15	8.46	8.81	12.68	12.33	16.87	13.34	12.72	10.28	9.33	9.19	9.08	10.94	
BOD5														
INFLUENT (MG/L)	88.0	110.0	72.0	86.0	105.0	90.0	100.0	115.0	102.0	105.0	86.0	76.0	94.8	
EFFLUENT (MG/L)	17.0	23.0	14.0	28.0	6.3	8.0	12.0	8.0	24.0	7.4	32.0	12.0	16.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	138.55	194.58	123.34	355.04	77.67	134.96	160.08	101.76	246.72	69.04	294.08	108.96	175.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	120.0	100.0	85.0	540.0	95.0	300.0	220.0	80.0	130.0	95.0	120.0	166.3	
EFFLUENT (MG/L)	10.0	9.0	8.0	15.0	15.0	35.0	9.0	5.0	10.0	4.0	35.0	6.0	13.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	81.50	76.14	70.48	190.20	184.95	590.45	120.06	63.60	102.80	37.32	321.65	54.48	146.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	5.4	3.2	4.7	5.0	4.3	4.4	4.4	4.0	5.7	3.8	3.9	4.5	
EFFLUENT (MG/L)	2.6	2.1	2.0	2.7	0.6	0.6	0.8	0.6	0.4	0.4	1.1	0.3	1.2	
CONCENTRATION LIMIT (MG/L)													13.13	
LOADING (KG/D)	21.19	17.76	17.62	34.23	7.39	10.12	10.67	7.63	4.11	3.73	10.10	2.72	13.13	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONGLAC
 PLANT : LONGLAC WPCP
 WORKS NUMBER : 110001042
 TREATMENT : CONTACT STABILIZATION
 :
 DESIGN CAPACITY : 2.45 (1000 M3)

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : MAKING GROUND RIVER
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED
 POPULATION SERVED : 2,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.79	1.98	1.89	3.48	3.01	2.21	2.06	1.91	1.73	1.83	1.97	1.32	2.10	
BOD5														
INFLUENT (MG/L)	82.0	91.0	81.0	86.0	63.0	58.0	96.0	68.0	89.0	64.0	99.0	106.0	81.9	
EFFLUENT (MG/L)	5.3	13.5	6.8	9.7	7.8	5.6	5.3	4.8	5.7	4.7	4.2	10.5	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.48	26.73	12.85	33.75	23.47	12.37	10.91	9.16	9.86	8.60	8.27	13.86	14.70	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	103.0	107.0	238.0	75.0	105.0	65.0	93.0	63.0	90.0	140.0	455.0	135.8	
EFFLUENT (MG/L)	7.0	7.5	20.0	15.0	12.5	8.0	4.0	11.5	5.0	3.0	4.5	6.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.53	14.85	37.80	52.20	37.62	17.68	8.24	21.96	8.65	5.49	8.86	7.92	18.27	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.6	5.2	3.9	3.6	4.2	6.2	4.3	5.1	4.1	4.3	5.1	4.7	
EFFLUENT (MG/L)	1.2	1.1	1.8	0.6	0.5	0.5	0.3	0.6	0.4	0.4	0.4	0.4	0.7	
CONCENTRATION LIMIT (MG/L)													0.7	
LOADING (KG/D)	2.14	2.17	3.40	2.08	1.50	1.10	0.61	1.14	0.69	0.73	0.78	0.52	1.47	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES
PARM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

MUNICIPALITY	:	MADSEN
PLANT	:	MADSEN WPCP
WORKS NUMBER	:	110002363
TREATMENT	:	COMMUNAL SEPTIC TANK
	:	
DESIGN CAPACITY	:	0.27 (1000 M3)

REGION	:	NORTHWEST
DISTRICT	:	KENORA
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	NO DISCHARGE TO S. WATER
MINOR BASIN	:	LAKE WINNIPEG EAST
MAJOR BASIN	:	NELSON RIVER
POPULATION SERVED	:	300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.08	0.11	0.08	0.09	0.10	0.10	0.11	0.09	0.09	0.09	0.10	0.12	0.10	
BOD5														
INFLUENT (MG/L)	72.0	134.0	86.0	61.0	47.0	284.0	108.0	155.0	117.0	104.0	143.0	106.0	118.1	
EFFLUENT (MG/L)	86.0	64.8	58.0	45.0	39.0	64.8	85.0	84.0	73.3	60.5	70.5	57.0	65.7	
LOADING (KG/D)	6.88	7.12	4.64	4.05	3.90	6.48	9.35	7.56	6.59	5.44	7.05	6.84	6.57	
PERCENT REMOVAL	ND	52	33	26	17	77	21	46	37	42	51	46	44	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	45.0	135.0	91.0	73.0	40.0	75.0	80.0	40.0	80.0	103.0	113.0	122.0	83.1	
EFFLUENT (MG/L)	50.0	36.0	40.0	40.0	41.3	41.3	28.0	35.0	30.0	40.0	37.5	38.3	38.1	
LOADING (KG/D)	4.00	3.96	3.20	3.60	4.13	4.13	3.08	3.15	2.70	3.60	3.75	4.59	3.61	
PERCENT REMOVAL	ND	73	56	45	ND	45	65	13	63	61	67	69	54	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	5.7	7.0	4.3	8.6	6.2	9.7	4.8	5.1	4.6	7.0	5.7	6.1	
EFFLUENT (MG/L)	4.7	4.2	4.4	3.6	3.7	4.7	4.5	4.9	4.4	4.2	3.7	4.2	4.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.37	0.46	0.35	0.32	0.37	0.47	0.49	0.44	0.39	0.37	0.37	0.50	0.43	

PARAM	CRITERIA	WITH CONC	COMPLIES
BOD	30%	NO DIRECT	DISCHARGE
SS	50%	NO DIRECT	DISCHARGE
TP	NA	NO DIRECT	DISCHARGE

NO REMEDIAL MEASURES REPORTED

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MANITOOWADGE LAGOON
 PLANT : MANITOOWADGE LAGOON
 WORKS NUMBER : 120001968
 TREATMENT : AERATED LAGOON
 : CONTINUOUS DISCHARGE
 :
 DESIGN CAPACITY : 4.10 (1000 M3)

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : RUDDER LAKE
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.92	2.79	2.58	3.53	5.16	3.28	3.00	2.85	2.67	2.57	2.83	2.79	3.08	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	102.0	113.0	106.0	46.0	52.0	52.0	44.0	98.0	94.0	78.0	205.0	76.0	88.8	
EFFLUENT (MG/L)	18.0	22.0	17.0	13.0	16.0	16.0	6.5	7.0	3.7	7.4	16.0	10.0	12.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	52.56	61.38	43.86	45.89	82.56	52.48	19.50	19.95	9.87	19.01	45.28	27.90	39.12	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	110.0	100.0	90.0	60.0	95.0	8.0	60.0	60.0	110.0	140.0	85.0	83.6	
EFFLUENT (MG/L)	15.0	20.0	10.0	25.0	10.0	55.0	15.0	10.0	7.0	15.0	15.0	10.0	17.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	43.80	55.80	25.80	88.25	51.60	180.40	45.00	28.50	18.69	38.55	42.45	27.90	53.28	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	6.3	5.0	4.2	1.9	3.5	3.0	4.2	4.4	4.0	2.9	3.3	3.9	
EFFLUENT (MG/L)	3.1	3.1	4.1	3.6	2.7	2.2	3.5	3.2	2.8	3.4	3.5	3.3	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.05	8.64	10.57	12.70	13.93	7.21	10.50	9.12	7.47	8.73	9.90	9.20	9.86	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30.0 MG/L	YES	
SS	40.0 MG/L	YES	
TP	NA	NA	

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MARATHON
 PLANT : MARATHON WPCP
 WORKS NUMBER : 120000471
 TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 4.40 (1000 M3)

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : LAKE SUPERIOR
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 5,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.14	2.39	2.95	2.68	2.09	1.50	1.47	1.41	1.57	1.69	1.64	1.60	1.93	
BOD5														
INFLUENT (MG/L)	141.0	96.0	88.0	71.0	112.0	123.0	128.0	140.0	121.0	121.0	154.0	175.0	122.5	
EFFLUENT (MG/L)	3.0	3.6	3.2	2.2	3.4	1.7	2.6	2.9	3.6	3.6	3.7	2.3	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	6.42	8.60	9.44	5.89	7.10	2.55	3.82	4.08	5.65	6.08	6.06	3.68	25.0	
SUSPENDED SOLIDS													5.79	
INFLUENT (MG/L)	245.0	100.0	98.0	170.0	123.0	100.0	90.0	108.0	95.0	125.0	150.0	120.0	127.0	
EFFLUENT (MG/L)	5.0	5.0	4.0	4.0	5.0	3.5	2.7	1.6	2.0	6.0	3.0	2.0	3.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	10.70	11.95	11.80	10.72	10.45	5.25	3.96	2.25	3.14	10.14	4.92	3.20	25.0	
TOTAL PHOSPHOROUS													7.14	
INFLUENT (MG/L)	6.5	5.9	4.7	4.6	5.1	6.1	8.2	8.4	6.6	7.8	7.1	7.2	6.5	
EFFLUENT (MG/L)	4.4	4.4	3.8	2.9	4.0	5.2	6.2	5.3	5.0	4.5	4.3	5.0	4.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.41	10.51	11.21	7.77	8.36	7.80	9.11	7.47	7.85	7.60	7.05	8.00	8.88	

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	
BOD	25.0 MG/L	YES	
SS	25.0 MG/L	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

NAKINA
NAKINA WPCP (NO PH REMOVAL AUG. 18 1987)
110003308
EXTENDED AERATION
CONVERTIBLE OPERATING MODE
DESIGN CAPACITY : 1.70 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BALKAM CREEK
MAJOR BASIN : JAMES BAY
POPULATION SERVED : ARCTIC WATERSHED : 750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.43	0.42	0.38	0.48	0.83	0.58	0.37	0.31	0.34	0.38	0.45	0.41	0.45	
BOD5 INFLUENT (MG/L)	88.0	117.0	395.0	105.0	61.0	70.0	77.0	151.0	138.0	72.0	112.0	104.0	124.2	
EFFLUENT (MG/L)	1.5	1.9	2.1	1.9	2.1	1.6	1.1	1.3	1.4	1.0	2.4	3.2	1.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.64	0.79	0.79	0.91	1.74	0.92	0.40	0.40	0.47	0.38	1.08	1.31	0.81	
SUSPENDED SOLIDS INFLUENT (MG/L)	105.0	125.0	500.0	240.0	98.0	53.0	60.0	163.0	128.0	75.0	105.0	105.0	146.4	
EFFLUENT (MG/L)	5.5	5.4	8.0	5.0	5.0	3.5	2.7	3.7	3.0	4.5	9.0	12.0	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.36	2.26	3.04	2.40	4.15	2.03	0.99	1.14	1.02	1.71	4.05	4.92	2.52	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.2	5.4	34.0	4.6	2.6	3.2	4.3	6.7	5.1	4.0	3.5	5.1	6.9	
EFFLUENT (MG/L)	2.1	2.4	2.7	2.0	1.4	1.9	1.7	0.3	0.7	1.1	1.7	2.0	1.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.90	1.00	1.02	0.96	1.16	1.10	0.62	0.09	0.23	0.41	0.76	0.82	0.77	

SUMMARY COMPLIES
PARAM CRITERIA WITH CONC
BOD 25.0 MG/L YES
SS 25.0 MG/L YES
TP NA NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NIPIGON
 PLANT : NIPIGON WPCP
 WORKS NUMBER : 120000514
 TREATMENT : PRIMARY

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NIPIGON RIVER
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 2,180

DESIGN CAPACITY : 1.63 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.78	1.77	1.73	1.78	1.92	1.80	1.65	1.65	1.67	1.59	1.67	1.75	1.73	
BOD5														
INFLUENT (MG/L)	96.0	96.0	112.0	64.0	122.0	115.0	ND	94.0	94.0	98.0	98.0	152.0	103.7	
EFFLUENT (MG/L)	50.0	50.0	41.0	35.0	74.0	76.0	82.0	72.0	34.0	55.0	52.0	145.0	63.8	
LOADING (KG/D)	89.00	88.50	70.93	62.30	142.08	136.80	135.30	118.80	56.78	87.45	86.84	253.75	110.37	
PERCENT REMOVAL	48	48	63	45	39	34	23	23	64	44	47	05	38	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	90.0	140.0	120.0	160.0	100.0	ND	ND	110.0	160.0	140.0	130.0	124.0	
EFFLUENT (MG/L)	45.0	45.0	45.0	45.0	35.0	160.0	30.0	25.0	10.0	40.0	40.0	60.0	48.3	
LOADING (KG/D)	80.10	79.65	77.85	80.10	67.20	288.00	49.50	41.25	16.70	63.60	66.80	105.00	83.56	
PERCENT REMOVAL	50	50	68	63	78	ND	ND	91	91	75	71	54	61	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	5.8	4.8	5.0	6.8	4.7	ND	6.2	6.8	5.4	6.8	4.8	5.7	
EFFLUENT (MG/L)	3.9	3.9	3.0	3.0	4.2	3.8	3.6	3.9	3.1	4.8	4.0	4.6	3.8	
CONCENTRATION LIMIT (MG/L)	6.94	6.90	5.19	5.34	8.06	6.84	5.94	6.43	5.17	7.63	6.68	8.05	6.57	
LOADING (KG/D)														

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	
BOD	30%	YES	
SS	50%	YES	
TP	NA	NA	

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

REGION	:	NORTHWEST
DISTRICT	:	KENORA
OPERATING AUTHORITY	:	MINISTRY OF THE ENVIRONMENT
WATERCOURSE	:	KAWINGOANS RIVER
MINOR BASIN	:	JAMES BAY
MAJOR BASIN	:	ARCTIC WATERSHED
POPULATION SERVED	:	425

MUNICIPALITY	:	PICKLE LAKE
PLANT	:	PICKLE LAKE WPCP
WORKS NUMBER	:	110002185
TREATMENT	:	EXTENDED AERATION
	:	
DESIGN CAPACITY	:	0.90 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.29	0.34	0.36	0.40	0.48	0.52	0.60	0.54	0.47	0.39	0.37	0.40	0.43	
BOD5														
INFLUENT (MG/L)	68.0	130.0	119.0	92.0	30.0	15.0	17.0	52.0	42.0	52.0	135.0	38.0	65.8	
EFFLUENT (MG/L)	3.3	2.7	4.8	4.1	2.5	2.2	1.6	1.8	1.5	1.6	1.8	2.1	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.95	0.91	1.72	1.64	1.20	1.14	0.96	0.97	0.70	0.62	0.66	0.84	1.08	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	68.0	260.0	120.0	180.0	42.0	20.0	25.0	55.0	30.0	53.0	253.0	50.0	96.3	
EFFLUENT (MG/L)	8.0	7.0	11.5	4.5	15.0	4.5	1.5	3.0	3.5	3.7	4.5	23.5	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.32	2.38	4.14	1.80	7.20	2.34	0.90	1.62	1.64	1.44	1.66	9.40	3.23	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	3.1	3.4	1.7	2.6	1.3	1.4	1.0	2.4	1.8	2.6	7.1	1.7	2.5	
EFFLUENT (MG/L)	1.5	1.5	1.9	0.7	0.5	0.6	0.4	1.2	1.0	2.0	1.2	0.6	1.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.43	0.51	0.68	0.28	0.24	0.31	0.24	0.64	0.47	0.78	0.44	0.24	0.47	

PARAM	CRITERIA	COMPLIES
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 NH₃ - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RED LAKE
PLANT : RED LAKE WPCP
WORKS NUMBER : 110001131
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 2.46 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : HOWEY BAY
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 1,945

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.93	1.93	1.89	2.25	2.25	2.18	1.96	1.85	1.67	1.71	1.88	1.98	1.96	
BOD5														
INFLUENT (MG/L)	100.0	40.0	73.0	34.0	56.0	60.0	82.0	38.0	60.0	75.0	93.0	100.0	67.6	
EFFLUENT (MG/L)	2.9	3.2	4.6	3.8	3.1	3.9	2.6	1.6	3.1	1.8	3.5	3.6	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.59	6.17	8.69	8.55	6.97	8.50	5.09	2.96	5.17	3.07	6.58	7.12	6.08	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	88.0	63.0	78.0	48.0	73.0	48.0	83.0	40.0	67.0	88.0	93.0	73.0	70.2	
EFFLUENT (MG/L)	5.0	4.5	8.0	9.0	7.5	15.0	3.0	4.5	5.3	5.0	7.0	8.5	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.65	8.68	15.12	20.25	16.87	32.70	5.88	8.32	8.85	8.55	13.16	16.83	13.52	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	2.0	3.1	2.1	2.6	3.1	3.6	3.0	3.0	4.1	3.8	2.9	3.1	
EFFLUENT (MG/L)	1.5	1.3	1.4	1.0	1.1	1.8	1.7	1.5	1.8	2.1	1.5	1.4	1.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.89	2.50	2.64	2.25	2.47	3.92	3.33	2.77	3.00	3.59	2.82	2.77	2.94	

SUMMARY		COMPLIES WITH CONC	
PARAM	CRITERIA	25.0 MG/L	YES
BOD	25.0 MG/L	YES	YES
SS	25.0 MG/L	YES	YES
TP	NA	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RED ROCK
 PLANT : RED ROCK WPCP
 WORKS NUMBER : 120001817
 TREATMENT : PRIMARY

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : NIPIGON BAY
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,150

DESIGN CAPACITY : 1.27 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.72	0.71	0.73	1.19	1.11	1.07	0.94	0.96	0.75	0.72	0.67	0.64	0.85	
BOD5														
INFLUENT (MG/L)	84.0	120.0	106.0	44.0	78.0	70.0	64.0	74.0	60.0	72.0	135.0	118.0	85.4	
EFFLUENT (MG/L)	38.0	28.0	39.0	29.0	34.0	21.0	41.0	9.0	22.0	37.0	85.0	50.0	36.1	
LOADING (KG/D)	27.36	19.88	28.47	34.51	37.74	22.47	38.54	8.64	16.50	26.64	56.95	32.00	30.69	
PERCENT REMOVAL	55	77	63	34	56	70	36	88	63	49	37	58	58	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	130.0	160.0	70.0	110.0	120.0	25.0	55.0	60.0	95.0	85.0	130.0	92.9	
EFFLUENT (MG/L)	15.0	20.0	30.0	25.0	30.0	35.0	6.0	8.0	20.0	15.0	35.0	30.0	22.4	
LOADING (KG/D)	10.80	14.20	21.90	29.75	33.30	37.45	5.64	7.68	15.00	10.80	23.45	19.20	19.04	
PERCENT REMOVAL	80	85	81	64	73	71	76	85	67	84	59	77	76	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	5.9	6.3	1.5	3.8	3.5	2.2	2.9	4.6	3.5	3.6	5.2	4.0	
EFFLUENT (MG/L)	2.3	2.3	2.6	0.9	1.6	1.4	1.7	0.9	1.5	2.0	21.0	3.3	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.65	1.63	1.89	1.07	1.77	1.49	1.59	0.86	1.12	1.44	14.07	2.11	2.90	

SUMMARY COMPLIES
 WITH CONC
 PARM CRITERIA YES
 BOD 30% YES
 SS 50% YES
 TP NA NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SCHREIBER
 PLANT : SCHREIBER WPCP
 WORKS NUMBER : 110002112
 TREATMENT : EXTENDED AERATION
 : CONTACT STABILIZATION
 : CONVERTIBLE OPERATING MODE
 : 1.13 (1000 M3)
 DESIGN CAPACITY : 1.13 (1000 M3)

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
 WATERCOURSE : CREEK TO L.SUPERIOR
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES
 POPULATION SERVED : 1,937

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.63	0.64	0.64	0.72	0.83	0.73	0.77	0.79	0.78	0.78	0.82	0.84	0.75	
BOD5														
INFLUENT (MG/L)	108.0	115.0	117.0	115.0	110.0	97.0	113.0	83.0	170.0	106.0	130.0	120.0	115.3	
EFFLUENT (MG/L)	41.0	33.0	36.7	13.0	24.1	23.0	ND	6.1	7.5	4.8	11.9	11.5	19.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.83	21.12	24.76	9.36	20.00	16.79	ND	4.81	5.85	3.74	9.75	9.66	14.63	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	170.0	110.0	133.0	113.0	101.0	88.0	55.0	68.0	215.0	125.0	195.0	83.0	121.3	
EFFLUENT (MG/L)	37.5	30.0	17.1	5.8	16.4	26.7	22.5	13.4	15.7	8.0	27.5	15.0	19.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	23.62	19.20	10.94	4.17	13.61	19.49	17.32	10.58	12.24	6.24	22.55	12.60	14.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	5.4	7.1	5.6	4.2	5.5	5.1	ND	6.0	5.6	4.0	4.2	5.5	
EFFLUENT (MG/L)	3.7	3.3	4.1	3.0	3.0	3.2	2.8	3.5	2.9	3.5	2.6	2.5	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.33	2.11	2.62	2.16	2.49	2.33	2.15	2.76	2.26	2.73	2.13	2.10	2.40	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
 BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SIOUX LOOKOUT
 PLANT : SIOUX LOOKOUT WPCP
 WORKS NUMBER : 120000220
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 :
 :
 :
 DESIGN CAPACITY : 2.27 (1000 M3)

REGION : NORTHWEST
 DISTRICT : KENORA
 OPERATING AUTHORITY : MUNICIPAL
 WATERCOURSE : PELICAN LAKE
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER
 POPULATION SERVED : 3,006

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.32	1.71	1.84	1.92	1.86	1.79	1.58	1.58	1.72	1.68	1.75	1.64	1.78	
BOD5 INFLUENT (MG/L)	124.0	100.0	290.0	106.0	130.0	235.0	153.0	ND	9.0	285.0	155.0	154.0	159.3	
EFFLUENT (MG/L)	21.0	20.0	17.0	9.2	0.8	5.0	33.0	ND	14.0	130.0	9.0	9.0	24.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	48.72	34.20	31.28	17.66	1.48	8.95	52.14	ND	24.08	218.40	15.75	14.76	43.43	
SUSPENDED SOLIDS INFLUENT (MG/L)	60.0	50.0	590.0	100.0	480.0	350.0	55.0	ND	4.0	290.0	440.0	120.0	230.8	
EFFLUENT (MG/L)	15.0	20.0	9.0	9.0	4.0	9.0	6.0	5.0	6.0	270.0	10.0	8.0	30.9M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	34.80	34.20	16.56	17.28	7.44	16.11	9.48	7.90	10.32	453.60	17.50	13.12	55.00	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	4.6	5.6	4.1	5.3	3.8	5.4	5.5	ND	2.9	5.4	4.7	4.2	4.7	
EFFLUENT (MG/L)	3.5	3.3	2.8	2.5	2.5	1.3	3.7	2.8	3.1	3.8	3.3	3.6	2.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	8.12	5.64	5.15	4.80		2.32	5.84	4.42	5.33	6.38	5.77	5.90	4.98	

SUMMARY		COMPLIES
PARAM	CRITERIA	WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	NA	NA

NOTE:

BOD - ASSESSED ANNUALLY
 SS - ASSESSED ANNUALLY
 TP - HAS NO CRITERIA
 * - EXCEEDS EFFLUENT CRITERIA
 SPACE (EG. " ") INDICATES A VALUE OF ZERO
 ND - NO DATA
 NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
 SLUDGE DISPOSAL/REMOVAL - UPGRADING LANDFILL SITE
 FACILITY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED
 FACILITY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

START DATE END DATE
 ANTICIPATED COMPLIANCE

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: TERRACE BAY
: TERRACE BAY LAGOON
: 120000499
: EXFILTRATION LAGOON
: NO DISCHARGE

DESIGN CAPACITY : 1.36 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC. TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY		COMPLIES	
PARAM	CRITERIA	WITH CONC	DISCHARGE
BOD	NA	NO DIRECT	DISCHARGE
SS	NA	NO DIRECT	DISCHARGE
TP	NA	NO DIRECT	DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
W - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TERRACE BAY
PLANT : TERRACE BAY WPCP
WORKS NUMBER : 120003030
TREATMENT : EXTENDED AERATION
: EXFILTRATION LAGOON
:

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC. TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 500

DESIGN CAPACITY : 0.54 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.24	0.27	0.23	0.29	0.20	0.30	0.29	0.30	0.26	0.27	0.23	0.20	0.26	
BOD5 INFLUENT (MG/L)	190.0	115.0	195.0	140.0	82.0	86.0	130.0	62.0	150.0	145.0	ND	108.0	127.5	
EFFLUENT (MG/L)	4.7	7.6	7.6	14.0	4.8	3.0	1.8	3.1	6.8	38.0	ND	5.0	8.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.12	2.05	1.74	4.06	0.96	0.90	0.52	0.93	1.76	10.26	ND	1.00	2.29	
SUSPENDED SOLIDS INFLUENT (MG/L)	310.0	140.0	280.0	230.0	140.0	90.0	100.0	100.0	190.0	140.0	ND	140.0	168.2	
EFFLUENT (MG/L)	4.0	15.0	10.0	20.0	5.0	9.0	4.0	4.0	40.0	19.0	ND	7.0	12.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.96	4.05	2.30	5.80	1.00	2.70	1.16	1.20	10.40	5.13	ND	1.40	3.25	
TOTAL PHOSPHOROUS INFLUENT (MG/L)	11.0	7.0	14.0	7.5	4.8	5.5	5.6	5.0	4.7	5.7	ND	6.9	7.1	
EFFLUENT (MG/L)	3.5	3.9	3.3	3.5	ND	3.0	4.2	3.6	4.4	6.9	ND	3.7	4.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.84	1.05	0.75	1.01	ND	0.90	1.21	1.08	1.14	1.86	ND	0.74	1.04	

NOTE:

BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

SUMMARY

PARAM	CRITERIA	COMPLIES WITH CONC	DISCHARGE
BOD	NA	NO DIRECT	DISCHARGE
SS	NA	NO DIRECT	DISCHARGE
TP	NA	NO DIRECT	DISCHARGE

NO REMEDIAL MEASURES REPORTED

1989 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY
PLANT
WORKS NUMBER
TREATMENT

: THUNDER BAY
: THUNDER BAY WPCP
: 120004805
: PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KAMINISTIKWIA RIVER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 101,527

DESIGN CAPACITY : 109.10 (1000 M3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	78.88	64.00	63.30	90.58	93.54	92.62	79.64	83.58	85.17	72.82	69.59	63.89	78.13	
BOD5														
INFLUENT (MG/L)	166.0	169.0	172.0	144.0	107.0	136.0	177.0	168.0	161.0	173.0	146.0	176.0	157.9	
EFFLUENT (MG/L)	65.5	76.2	103.5	41.0	50.0	60.8	53.0	61.4	69.2	69.8	64.8	86.8	66.8	
LOADING (KG/D)	5166.64	4876.80	6551.55	3713.78	4677.00	5631.29	4220.92	5131.81	5893.76	5082.83	4509.43	5545.65	5219.08	
PERCENT REMOVAL	61	55	40	72	53	55	70	63	57	60	56	51	58	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	190.0	154.0	186.0	200.0	192.0	194.0	289.0	258.0	174.0	295.0	210.0	253.0	216.3	
EFFLUENT (MG/L)	83.7	77.3	97.5	79.0	70.0	63.6	62.5	54.9	51.3	65.3	68.7	76.3	70.8	
LOADING (KG/D)	6602.25	4947.20	6171.75	7155.82	6547.80	5890.63	4977.50	4588.54	4369.22	4755.14	4780.83	4874.80	5531.60	
PERCENT REMOVAL	56	50	48	61	64	67	78	79	71	78	67	70	67	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	4.4	4.6	4.2	3.9	3.8	5.0	4.1	4.4	5.9	5.0	5.1	4.6	
EFFLUENT (MG/L)	1.4	1.6	2.8	0.8	0.7	1.2	0.9	0.8	1.2	1.9	1.6	1.7	1.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	8
LOADING (KG/D)	110.43	102.40	177.24	72.46	65.47	111.14	71.67	66.86	102.20	138.35	111.34	108.61	109.38	

SUMMARY		COMPLIES	
PARM	CRITERIA	WITH CONC	YES
BOD	50%	YES	
SS	70%	NO	
TP	1.0 MG/L	NO	

NOTE:

BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED
EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED
FACILITY EXPANSION/UPGRADING - UPGRADING TO SECONDARY TREATMENT
FACILITY EXPANSION/UPGRADING - APPLICATION FOR FUNDING

START DATE END DATE ANTICIPATED COMPLIANCE

1990/03 1990/04
1990/03 1990/04
1990/03 1995/03

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(OFFSITE CHEM.ADDN)

APPENDIX D

SEWAGE TREATMENT PLANT
PRIMARY AND SECONDARY BYPASS DATA
FOR 1989

ABBREVIATIONS FOR APPENDIX D

Hrs. Hours
No of Times Number of Bypass Occurrences
1000 m³ Thousands of Cubic Meters
WPCP Water Pollution Control Plant
(same as STP)

SOUTHWEST REGION

1989 BYPASS OCCURRENCES

MUNICIPALITY : GODERICH
 PLANT : GODERICH WPCP
 WORKS NUMBER : 120000943
 WATERCOURSE : LAKE HURON

REGION : SOUTHWEST
 DISTRICT : HURON
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 9.092
 POPULATION SERVED : 7,400
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN		1.0			1.0	
FEB						
MAR		1.0			1.0	
APR						
MAY		2.8			2.8	
JUN		1.0			1.0	
JUL						
AUG		9.0			9.0	
SEP		1.9			1.9	
OCT		2.0			2.0	
NOV		1.0			1.0	
DEC						
TOTAL	0.00	19.7	0	0.00	19.7	0
OBSERVATIONS	0	8.0	0	0	8.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : LEAMINGTON
 PLANT : LEAMINGTON WPCP
 WORKS NUMBER : 120001069
 WATERCOURSE : LAKE ERIE

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 19.093
 POPULATION SERVED : 12,600
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	1.00	6.0	6	0.00	0.0	0
TOTAL OBSERVATIONS	1.00 1	6.0 1.0	6 1	0.00 1	0.0 1.0	0 1
PERCENTAGE OF PLANT EFFLUENT	0.01%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
 PLANT : GREENWAY WPCP
 WORKS NUMBER : 120000863
 WATERCOURSE : THAMES RIVER

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 124.333
 POPULATION SERVED : 168,274
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	10.57	58.5	5	9.27	23.0	9
FEB				53.50	14.6	4
MAR				39.77	46.1	12
APR				15.54	17.1	8
MAY				25.20	15.4	9
JUN				2.38	8.0	3
JUL				10.33	4.6	9
AUG				5.68	16.8	2
SEP				57.05	56.9	10
OCT				21.35	10.8	1
NOV						
DEC						
TOTAL	10.57	58.5	5	240.10	213.3	67
OBSERVATIONS	1	1.0	1	10	10.0	10
PERCENTAGE OF PLANT EFFLUENT	0.02%			0.54%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
 PLANT : POTTERSBURG WPCP
 WORKS NUMBER : 120000836
 WATERCOURSE : THAMES RIVER

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 22.048
 POPULATION SERVED : 25,653
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	1.66	11.0	2			
FEB						
MAR	4.85	9.0	2			
APR	1.02	19.0	6			
MAY	1.35	1.5	1			
JUN	0.65	1.0	1			
JUL						
AUG						
SEP	0.04	0.3	2			
OCT						
NOV	1.29	4.0	4			
DEC	0.45	5.0	1			
TOTAL	11.32	50.8	19	0.00	0.0	0
OBSERVATIONS	8	8.0	8	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.19%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
 PLANT : VAUXHALL WPCP
 WORKS NUMBER : 120000845
 WATERCOURSE : THAMES RIVER

REGION : SOUTHWEST
 DISTRICT : MIDDLESEC
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 20.912
 POPULATION SERVED : 22,981
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV	0.00		4	0.00		0
DEC						
TOTAL	0.00	0.0	4	0.00	0.0	0
OBSERVATIONS	1	0.0	1	1	0.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MAIDSTONE	REGION : SOUTHWEST
PLANT : BELLE RIVER-MAIDSTONE WPCP	DISTRICT : ESSEX
WORKS NUMBER : 110002078	OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ST.CLAIR	MINOR BASIN : ERIE
	MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 6.819
 POPULATION SERVED : 8,568
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	6.81	10.0	1	0.00	0.0	0
JUL	75.65	80.5	5	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	82.47	90.5	6	0.00	0.0	0
OBSERVATIONS	11	11.0	11	11	11.0	11
PERCENTAGE OF PLANT EFFLUENT	4.46%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : OWEN SOUND
 PLANT : OWEN SOUND WPCP
 WORKS NUMBER : 110000551
 WATERCOURSE : GEORGIAN BAY

REGION : SOUTHWEST
 DISTRICT : GREY
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 24.548
 POPULATION SERVED : 20,000
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	3.68	9.0	1	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.69	2.0	1	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	4.37 12	11.0 12.0	2 12	0.00 12	0.0 12.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.09%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PORT BURWELL
 PLANT : PORT BURWELL WPCP
 WORKS NUMBER : 110001319
 WATERCOURSE : BIG OTTER CR.- LAKE ERIE

REGION : SOUTHWEST
 DISTRICT : ELGIN
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.527
 POPULATION SERVED : 780
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	1	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.00 12	0.0 12.0	1 12	0.00 12	0.0 12.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PORT ELGIN
 PLANT : PORT ELGIN WPCP
 WORKS NUMBER : 120001470
 WATERCOURSE : SAUGEEEN RIVER

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 6.455
 POPULATION SERVED : 6,115
 TREATMENT : OXIDATION DITCH
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	113.14	3.3	1	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0			
OCT	0.00		0			
NOV	0.00	0.3	1	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	113.14	3.6	2	0.00	0.0	0
OBSERVATIONS	12	11.0	12	10	10.0	10
PERCENTAGE OF PLANT EFFLUENT	0.01%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : STEPHEN
 PLANT : HURON PARK WPCP
 WORKS NUMBER : 110003488
 WATERCOURSE : AUSABLE RIVER

REGION : SOUTHWEST
 DISTRICT : HURON
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.818
 POPULATION SERVED : 1,400
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.54	20.0	3	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.39	15.0	5	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.93 12	35.0 12.0	8 12	0.00 12	0.0 12.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.23%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : STRATFORD
 PLANT : STRATFORD WPCP
 WORKS NUMBER : 110000702
 WATERCOURSE : AVON RIVER

REGION : SOUTHWEST
 DISTRICT : PERTH
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 27.276
 POPULATION SERVED : 26,078
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.82	4.2	2	7.01	16.1	3
FEB	0.00	0.0	0	0.00	0.0	0
MAR	2.84	5.0	1	31.21	51.9	4
APR	0.00	0.0	0	3.93	28.8	4
MAY	0.00	0.0	0	1.55	1.4	1
JUN	3.40	3.9	1	24.38	28.5	4
JUL	0.18	0.6	1	0.01	0.8	1
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.09	1.0	1
OCT	2.25	2.2	1	5.25	5.6	2
NOV	4.75	4.6	1	46.65	54.4	4
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	14.26	20.5	7	120.12	188.5	24
OBSERVATIONS	12	12.0	12	12	12.0	12
PERCENTAGE OF PLANT EFFLUENT	0.18%			1.55%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : TUCKERSMITH
 PLANT : VAN ASTRA WPCP
 WORKS NUMBER : 110003013
 WATERCOURSE : MUN DRAIN TO BAYFIELD R.

REGION : SOUTHWEST
 DISTRICT : HURON
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.405
 POPULATION SERVED : 770
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	5.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.00 12	5.0 12.0	0 12	0.00 12	0.0 12.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WALKERTON
 PLANT : WALKERTON WPCP
 WORKS NUMBER : 120001489
 WATERCOURSE : SAUGEEEN RIVER

REGION : SOUTHWEST
 DISTRICT : BRUCE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 7.546
 POPULATION SERVED : 4,591
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB						
MAR	0.75	7.9	3	0.00	0.0	0
APR	0.00		0	0.00		0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL						
AUG	0.00		0	0.00		0
SEP	0.00	0.0	0	0.00	0.0	0
OCT						
NOV	0.00	0.0	0	0.00	0.0	0
DEC						
TOTAL OBSERVATIONS	0.75 8	7.9 5.0	3 8	0.00 8	0.0 5.0	0 8
PERCENTAGE OF PLANT EFFLUENT	0.04%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WALLACEBURG
 PLANT : WALLACEBURG WPCP
 WORKS NUMBER : 110000784
 WATERCOURSE : SYDENHAM RIVER

REGION : SOUTHWEST
 DISTRICT : KENT
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 6.819
 POPULATION SERVED : 10,056
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	1.8	0	0.00	0.0	0
JUN	0.00	14.9	0	0.00	0.0	0
JUL	0.00	0.3	0	0.00	0.0	0
AUG	0.00	4.0	0	0.00	0.0	0
SEP	0.00	3.3	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.6	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.00	24.9	0	0.00	0.0	0
OBSERVATIONS	12	12.0	12	12	12.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WINDSOR
 PLANT : LITTLE RIVER WPCP
 WORKS NUMBER : 120001096
 WATERCOURSE : LITTLE RIVER

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 36.368
 POPULATION SERVED : 64,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	47.90	101.0	15			
FEB	0.00	0.0	0			
MAR	43.40	129.0	11			
APR	101.50	193.0	13			
MAY	8.10	17.0	1			
JUN	0.00	0.0	0			
JUL	108.70	82.0	4			
AUG	0.00	0.0	0			
SEP	5.20	1.0	1			
OCT	0.00	0.0	0			
NOV	0.00	0.0	0			
DEC	9.40	20.0	1			
TOTAL	324.20	543.0	46	0.00	0.0	0
OBSERVATIONS	12	12.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	2.40%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WINDSOR
 PLANT : WESTERLY WPCP
 WORKS NUMBER : 120001103
 WATERCOURSE : DETROIT RIVER

REGION : SOUTHWEST
 DISTRICT : ESSEX
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 163.656
 POPULATION SERVED : 123,000
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	2.10	2.0	1			
FEB	0.00	0.0	0			
MAR	15.33	5.0	1			
APR	37.30	8.0	2			
MAY	25.40	7.0	2			
JUN	34.90	11.0	3			
JUL	117.70	26.0	3			
AUG	5.80	2.0	2			
SEP	36.10	13.0	5			
OCT	42.20	13.0	3			
NOV	14.20	5.0	1			
DEC	3.50	2.0	1			
TOTAL	334.53	94.0	24	0.00	0.0	0
OBSERVATIONS	12	12.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.78%			0.00%		

WEST CENTRAL REGION

1989 BYPASS OCCURRENCES

MUNICIPALITY : BRANTFORD
 PLANT : BRANTFORD WPCP
 WORKS NUMBER : 110000043
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT : BRANT
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 81.818
 POPULATION SERVED : 73,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0			
FEB						
MAR	0.00	0.0	0			
APR	0.00	0.0	0			
MAY	0.00	0.0	0			
JUN	1700.00	2.8	1			
JUL	0.00	0.0	0			
AUG	0.00	0.0	0			
SEP	0.00	0.0	0			
OCT	0.00	0.0	0			
NOV	0.00	0.0	0			
DEC	0.00	0.0	0			
TOTAL	1,700.00	2.8	1	0.00	0.0	0
OBSERVATIONS	11	11.0	11	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	9.92%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : CAMBRIDGE
 PLANT : GALT WPCP
 WORKS NUMBER : 110000276
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT :
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 38.641
 POPULATION SERVED : 50,143
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	0.14	0.5	0			
APR						
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0			
JUL	0.00	0.0	0			
AUG	0.00	0.0	1			
SEP	0.00	0.0	0			
OCT						
NOV	0.00	0.0	1			
DEC	0.00	0.0	0			
TOTAL	0.14	0.5	2	0.00	0.0	0
OBSERVATIONS	8	8.0	8	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : CAMBRIDGE
 PLANT : HESPELER WPCP
 WORKS NUMBER : 110001033
 WATERCOURSE : SPEED RIVER

REGION : WEST CENTRAL
 DISTRICT :
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 9.319
 POPULATION SERVED : 11,392
 TREATMENT : HIGH RATE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	1	0.00	0.0	1
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV						
DEC						
TOTAL OBSERVATIONS	0.00 10	0.0 10.0	1 10	0.00 10	0.0 10.0	1 10
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : DELHI
 PLANT : DELHI WPCP
 WORKS NUMBER : 120001425
 WATERCOURSE : BIG CREEK

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.182
 POPULATION SERVED : 4,257
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : AEROBIC SINGLE STAGE

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP	0.00	0.0	30	0.00	0.0	30
OCT	0.00	0.0	31	0.00	0.0	31
NOV						
DEC						
TOTAL OBSERVATIONS	0.00 2	0.0 2.0	61 2	0.00 2	0.0 2.0	61 2
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : DUNNVILLE
 PLANT : DUNNVILLE WPCP
 WORKS NUMBER : 120001443
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 7.728
 POPULATION SERVED : 5,182
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	0.00	0.7	1			
TOTAL OBSERVATIONS	0.00 1	0.7 1.0	1 1	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : FERGUS
 PLANT : FERGUS WPCP
 WORKS NUMBER : 110000249
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT : WELLINGTON
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.001
 POPULATION SERVED : 6,050
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.08	0.5	1			
FEB						
MAR						
APR						
MAY	0.11	2.8	1			
JUN						
JUL						
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	1	0.00	0.0	1
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.04	1.5	1			
DEC						
TOTAL	0.23	4.8	4	0.00	0.0	1
OBSERVATIONS	6	6.0	6	3	3.0	3
PERCENTAGE OF PLANT EFFLUENT	0.02%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : FORT ERIE
 PLANT : ANGER AVE.WPCP
 WORKS NUMBER : 120001292
 WATERCOURSE : NIAGARA RIVER

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 16.366
 POPULATION SERVED : 13,765
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY		0.7				
JUN		0.7				
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.00	1.4	0	0.00	0.0	0
OBSERVATIONS	0	2.0	0	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : FORT ERIE
 PLANT : CRYSTAL BEACH WPCP
 WORKS NUMBER : 120001283
 WATERCOURSE : LAKE ERIE

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.887
 POPULATION SERVED : 4,095
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY				18.10		1
JUN				28.30		1
JUL				0.09		1
AUG				44.00		1
SEP				1.16		1
OCT				0.24		1
NOV				5.20		1
DEC						
TOTAL	0.00	0.0	0	97.09	0.0	7
OBSERVATIONS	0	0.0	0	7	0.0	7
PERCENTAGE OF PLANT EFFLUENT	0.00%			7.51%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : GRAND VALLEY
 PLANT : GRAND VALLEY WPCP
 WORKS NUMBER : 110000301
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT : DUFFERIN
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.600
 POPULATION SERVED : 1,060
 TREATMENT : OXIDATION DITCH
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	30	0.00	0.0	30
OCT	0.00	0.0	0	0.00	0.0	0
NOV						
DEC						
TOTAL	0.00	0.0	30	0.00	0.0	30
OBSERVATIONS	3	3.0	3	3	3.0	3
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
 PLANT : CALEDONIA WPCP
 WORKS NUMBER : 120001452
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 2.273
 POPULATION SERVED : 5,655
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.79	3.5	1
MAY	0.00	0.0	0	1.15	4.3	1
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	2.87	12.8	1
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	2.75	11.0	1
OCT	0.00	0.0	0	0.00	0.0	0
NOV						
DEC						
TOTAL	0.00	0.0	0	7.57	31.6	4
OBSERVATIONS	10	10.0	10	10	10.0	10
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.82%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
 PLANT : CAYUGA WPCP
 WORKS NUMBER : 110000089
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.909
 POPULATION SERVED : 1,258
 TREATMENT : OXIDATION DITCH
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.28	7.0	1
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	2.58	24.0	2
MAY	0.00	0.0	0	2.19	30.0	2
JUN	0.00	0.0	0	1.16	13.5	1
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV				0.43	6.0	1
DEC						
TOTAL OBSERVATIONS	0.00 10	0.0 10.0	0 10	6.66 11	80.5 11.0	7 11
PERCENTAGE OF PLANT EFFLUENT	0.00%			3.59%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
 PLANT : HAGERSVILLE WPCP
 WORKS NUMBER : 110001024
 WATERCOURSE : SANDUSK CREEK

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.000
 POPULATION SERVED : 2,268
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : AEROBIC SINGLE STAGE

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	1	0.00	0.0	1
AUG	0.00	0.0	1	0.00	0.0	1
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV						
DEC						
TOTAL OBSERVATIONS	0.00 10	0.0 10.0	2 10	0.00 10	0.0 10.0	2 10
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HAMILTON REGION : WEST CENTRAL
 PLANT : WOODWARD AVE.WPCP (OFFSITE DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
 WORKS NUMBER : 120001504 OP AUTHORITY : MUNICIPAL
 WATERCOURSE : REDHILL CREEK MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 409.140
 POPULATION SERVED : 300,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN		0.0			4.0	
FEB		0.0			0.0	
MAR		22.0			154.1	
APR		9.0			62.5	
MAY		25.5			141.9	
JUN		3.0			70.9	
JUL		0.0			19.4	
AUG		0.0			5.0	
SEP	15.20		4		37.1	
OCT		0.0			11.9	
NOV		13.5			67.5	
DEC		6.0			8.6	
TOTAL	15.20	79.0	4	0.00	582.9	0
OBSERVATIONS	1	11.0	1	0	12.0	0
PERCENTAGE OF PLANT EFFLUENT	0.01%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : KITCHENER
 PLANT : KITCHENER WPCP
 WORKS NUMBER : 110000374
 WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
 DISTRICT :
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 122.742
 POPULATION SERVED : 138,271
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY	0.00		0			
JUN	0.00		0			
JUL	0.00		1			
AUG	0.00		0			
SEP	0.00		1			
OCT	204.00	240.0	8			
NOV	0.00		0			
DEC	0.00		1			
TOTAL OBSERVATIONS	204.00 8	240.0 1.0	11 8	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.82%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NANTICOKE
 PLANT : PORT DOVER WPCP
 WORKS NUMBER : 110000604
 WATERCOURSE : LAKE ERIE

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.091
 POPULATION SERVED : 4,750
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.00	0.0	0	0.00	0.0	28
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0			
MAY	0.00	0.0	0		0.0	
JUN	0.00	0.0	0			
JUL	0.00	0.0	0			
AUG	0.00	0.0	0			
SEP	0.00	0.0	0			
OCT	0.00	0.0	0	0.00		1
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.00	0.0	0	0.00	0.0	29
OBSERVATIONS	11	11.0	11	5	5.0	5
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NIAGARA FALLS
 PLANT : STAMFORD WPCP
 WORKS NUMBER : 120001363
 WATERCOURSE : CHIPPAWA POWER CANAL

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 58.189
 POPULATION SERVED : 67,835
 TREATMENT : ROTATING BIOLOGICAL CONTACTOR
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	10.90	2.7	1			
MAR	238.20	14.5	1			
APR	291.30	24.5	1			
MAY	592.00	70.3	1			
JUN						
JUL						
AUG	113.65	2.5	1			
SEP		15.5				
OCT		15.0				
NOV		11.5				
DEC		11.0				
TOTAL	1,246.05	167.5	5	0.00	0.0	0
OBSERVATIONS	5	9.0	5	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	6.05%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : ORANGEVILLE
 PLANT : ORANGEVILLE WPCP
 WORKS NUMBER : 110000542
 WATERCOURSE : CREDIT RIVER

REGION : WEST CENTRAL
 DISTRICT : DUFFERIN
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 14.547
 POPULATION SERVED : 16,515
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL	0.00	0.0	31	0.00	0.0	31
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV						
DEC						
TOTAL OBSERVATIONS	0.00 4	0.0 4.0	31 4	0.00 4	0.0 4.0	31 4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SIMCOE
 PLANT : SIMCOE WPCP
 WORKS NUMBER : 110000677
 WATERCOURSE : LYNN RIVER

REGION : WEST CENTRAL
 DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 15.456
 POPULATION SERVED : 13,355
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	31	0.00	0.0	31
FEB	0.00	0.0	27	0.00	0.0	27
MAR	0.00		31	0.00		31
APR	0.00		30			
MAY	0.00		31	0.00		31
JUN						
JUL	0.00		31	0.00		31
AUG	0.00		31	0.00		31
SEP	0.00		0	0.00		0
OCT	0.00		31	0.00		31
NOV	0.00		30			
DEC	0.00		31			
TOTAL OBSERVATIONS	0.00 11	0.0 2.0	304 11	0.00 8	0.0 2.0	213 8
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SOUTH DUMFRIES
 PLANT : ST GEORGE PV WPCP
 WORKS NUMBER : 110003415
 WATERCOURSE : FAIRCHILD CREEK (W. BR)

REGION : WEST CENTRAL
 DISTRICT : BRANT
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ERIE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.064
 POPULATION SERVED : 500
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB						
MAR						
APR						
MAY						
JUN	0.00					
JUL						
AUG						
SEP						
OCT						
NOV	0.00		0			
DEC	0.00		0			
TOTAL	0.00	0.0	0	0.00	0.0	0
OBSERVATIONS	5	1.0	5	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : ST CATHARINES
 PLANT : PORT DALHOUSIE WPCP
 WORKS NUMBER : 120001327
 WATERCOURSE : LAKE ONTARIO

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 61.371
 POPULATION SERVED : 60,430
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR		14.0				
APR		16.0				
MAY		44.2				
JUN		16.5				
JUL		10.0				
AUG		2.0				
SEP		9.0				
OCT	9.50		4			
NOV		9.7				
DEC	10.00		1			
TOTAL	19.50	121.4	5	0.00	0.0	0
OBSERVATIONS	2	8.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.12%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : ST CATHARINES
 PLANT : PORT WELLER WPCP
 WORKS NUMBER : 120001318
 WATERCOURSE : PORT WELLER HARBOUR

REGION : WEST CENTRAL
 DISTRICT : NIAGARA, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 37.505
 POPULATION SERVED : 75,690
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY	141.11		1			
JUN						
JUL	11.53		1			
AUG	.55		1			
SEP	20.62		1			
OCT	2.79		1			
NOV	42.01		1			
DEC	.84		1			
TOTAL	219.98	0.0	7	0.00	0.0	0
OBSERVATIONS	7	0.0	7	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	15 %			0.00%		

CENTRAL REGION

1989 BYPASS OCCURRENCES

MUNICIPALITY : BOBCAYGEON	REGION : CENTRAL
PLANT : BOBCAGEON WPCP(SUMM.POP.SERVED	DISTRICT : VICTORIA
WORKS NUMBER : 110002498	OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BOBCAYGEON RIVER	MINOR BASIN : ONTARIO
	MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.055
 POPULATION SERVED : 1,610
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		31	0.00		31
FEB	0.00		28	0.00		28
MAR						
APR					0.0	
MAY						
JUN						
JUL	0.00	0.0	1	0.00	0.0	1
AUG	0.00	0.0	2	0.00	0.0	2
SEP	0.00	0.0	1	0.00	0.0	1
OCT	0.00	0.0	1	0.00	0.0	1
NOV	0.00	0.0	1	0.00	0.0	1
DEC	0.00		31	0.00		31
TOTAL OBSERVATIONS	0.00 8	0.0 5.0	96 8	0.00 8	0.0 6.0	96 8
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : BURLINGTON
 PLANT : SKYWAY WPCP
 WORKS NUMBER : 110000070
 WATERCOURSE : HAMILTON HARBOUR

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 93.193
 POPULATION SERVED : 120,100
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB				0.92		0
MAR						
APR				0.17		0
MAY				0.08		0
JUN				0.13		0
JUL				0.20		0
AUG				2.33	18.0	1
SEP				13.12		1
OCT				1.33	7.0	1
NOV				10.87	32.0	1
DEC						
TOTAL	0.00	0.0	0	29.18	57.0	4
OBSERVATIONS	1	0.0	1	10	3.0	10
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.12%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : COLDWATER
 PLANT : COLDWATER WPCP
 WORKS NUMBER : 110001596
 WATERCOURSE : COLDWATER RIVER

REGION : CENTRAL
 DISTRICT : SIMCOE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.546
 POPULATION SERVED : 1,015
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	0.25	4.0	1			
TOTAL OBSERVATIONS	0.25 1	4.0 1.0	1 1	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.15%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HALTON HILLS
 PLANT : ACTON WPCP + LAGOON
 WORKS NUMBER : 120001023
 WATERCOURSE : BLACK CREEK

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
 POPULATION SERVED : 7,478
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.00		0	0.00		0
JUN	0.00		0	0.00		0
JUL	0.00	0.0	0			
AUG	0.00	0.0	0	0.00	0.0	0
SEP	127.00	148.0	3	35.40	6.3	3
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	127.00 12	148.0 6.0	3 12	35.40 11	6.3 5.0	3 11
PERCENTAGE OF PLANT EFFLUENT	13.52%			3.77%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : METRO TORONTO
 PLANT : HUMBER WPCP (ETOBICOKE)
 WORKS NUMBER : 120000382
 WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
 DISTRICT : METRO TORONTO, MUN. OF
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 409.140
 POPULATION SERVED : 540,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00	0.0	0	0.00		0
MAY	0.00		0	0.00		0
JUN	0.00	0.0	0	48.55	10.5	3
JUL	0.00		0	0.00		0
AUG	0.00		0	0.00		0
SEP	0.00	0.0	0	0.00		0
OCT	0.00		0	0.44	0.1	1
NOV	0.00		0	0.00		0
DEC	0.00		0	0.00		0
TOTAL OBSERVATIONS	0.00 12	0.0 3.0	0 12	48.99 12	10.6 2.0	4 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.03%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : METRO TORONTO
 PLANT : MAIN WPCP (TORONTO)
 WORKS NUMBER : 120000391
 WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
 DISTRICT : METRO TORONTO, MUN. OF
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 818.280
 POPULATION SERVED : 1,250,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00	0.0	0	0.00		0
MAY	0.00		0	0.00		0
JUN	0.00	0.0	0	2.60	9.5	2
JUL	0.00		0	0.40	2.0	1
AUG	0.00		0	0.30	1.0	1
SEP	0.40	4.5	1	4.50		1
OCT	0.00		0	0.10	4.6	1
NOV	0.00		0	1.66	6.5	2
DEC	0.00	0.0	0	0.00		0
TOTAL	0.40	4.5	1	9.56	23.6	8
OBSERVATIONS	12	4.0	12	12	5.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MIDLAND
 PLANT : MIDLAND WPCP
 WORKS NUMBER : 110000463
 WATERCOURSE : MIDLAND BAY

REGION : CENTRAL
 DISTRICT : SIMCOE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 13.680
 POPULATION SERVED : 12,538
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		1	0.00		1
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.00 12	0.0 8.0	1 12	0.00 12	0.0 8.0	1 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MILTON
 PLANT : MILTON WPCP
 WORKS NUMBER : 120001014
 WATERCOURSE : OAKVILLE CREEK

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 12.911
 POPULATION SERVED : 23,203
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 : EFFLUENT POLISHING

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.00		0	0.00		0
JUN	0.06		0	0.00		0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00		0	0.00		0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.06 12	0.0 5.0	0 12	0.00 12	0.0 5.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MISSISSAUGA
 PLANT : CLARKSON WPCP SOUTH-PEEL
 WORKS NUMBER : 110001328
 WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
 DISTRICT : PEEL, REG. MUN.
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 109.104
 POPULATION SERVED : 150,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	36.40		1	4.54	1.0	1
FEB						
MAR						
APR						
MAY						
JUN	0.00		2		0.0	
JUL						
AUG						
SEP						
OCT						
NOV	0.00		2		0.0	
DEC						
TOTAL	36.40	0.0	3	4.54	1.0	1
OBSERVATIONS	2	0.0	2	1	2.0	1
PERCENTAGE OF PLANT EFFLUENT	0.12%			7.5%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NEWCASTLE
 PLANT : PORT DARLINGTON WPCP
 WORKS NUMBER : 120003076
 WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
 POPULATION SERVED : 12,831
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	3.36	14.0	1			
MAY	4.32	24.0	1			
JUN	7.44	23.0	1			
JUL						
AUG						
SEP						
OCT						
NOV				3.16	46.0	3
DEC						
TOTAL	15.12	61.0	3	3.16	46.0	3
OBSERVATIONS	3	3.0	3	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.49%			0.10%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : OAKVILLE
 PLANT : SOUTH WEST WPCP
 WORKS NUMBER : 120001005
 WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
 DISTRICT : HALTON, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 47.733
 POPULATION SERVED : 58,200
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC				0.20	0.5	1
TOTAL OBSERVATIONS	0.00 0	0.0 0.0	0 0	0.20 1	0.5 1.0	1 1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : ORILLIA
 PLANT : ORILLIA WPCP
 WORKS NUMBER : 120000569
 WATERCOURSE : LAKE SIMCOE

REGION : CENTRAL
 DISTRICT : SIMCOE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 21.045
 POPULATION SERVED : 24,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	31.82	30.0	0			
FEB						
MAR				21.78	101.0	0
APR				48.00	222.5	0
MAY	2.95	5.2	2			
JUN				2.95	5.2	2
JUL						
AUG				0.04	1.0	1
SEP	3.38	4.0	1			
OCT				0.16	0.5	1
NOV				22.75	133.0	3
DEC						
TOTAL	38.15	39.2	3	95.70	463.2	7
OBSERVATIONS	3	3.0	3	6	6.0	6
PERCENTAGE OF PLANT EFFLUENT	0.52%			1.29%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PENETANGUISHENE
 PLANT : FOX ST. WPCP
 WORKS NUMBER : 120001960
 WATERCOURSE : PENETANGUISHENE HARBOUR

REGION : CENTRAL
 DISTRICT : SIMCOE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.500
 POPULATION SERVED : 2,100
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC		0.7				
TOTAL OBSERVATIONS	0.00 0	0.7 1.0	0 0	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY :	PENETANGUISHENE	REGION :	CENTRAL
PLANT :	PENETANGUISHENE WPCP MAIN ST	DISTRICT :	SIMCOE
WORKS NUMBER :	120000541	OP AUTHORITY :	MUNICIPAL
WATERCOURSE :	PENETANG BAY	MINOR BASIN :	HURON
		MAJOR BASIN :	GREAT LAKES

DESIGN CAPACITY : 3.000
 POPULATION SERVED : 4,800
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN		16.0				
JUL						
AUG	1.50		1			
SEP		5.5				
OCT	0.00	0.7	2			
NOV		19.0				
DEC						
TOTAL	1.50	41.2	3	0.00	0.0	0
OBSERVATIONS	2	4.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.16%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PETERBOROUGH
 PLANT : PETERBOROUGH WPCP
 WORKS NUMBER : 120000676
 WATERCOURSE : OTONABEE RIVER

REGION : CENTRAL
 DISTRICT : PETERBOROUGH
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 68.190
 POPULATION SERVED : 62,945
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00		0	2.08	6.0	1
JUN	0.00		0	4.86	15.0	3
JUL	0.00		0	0.00		0
AUG	0.00		1	12.50	7.0	1
SEP	0.00		0	26.52	15.0	2
OCT	0.00		0	1.70	4.5	1
NOV	0.00	0.0	1	30.50	60.0	5
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.00	0.0	2	78.18	107.5	13
OBSERVATIONS	12	3.0	12	12	8.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.41%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WHITBY
 PLANT : CORBETT CREEK WPCP
 WORKS NUMBER : 120000738
 WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 36.368
 POPULATION SERVED : 26,100
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY						
JUN	0.00	0.0	0	0.00	0.0	0
JUL						
AUG	0.00	0.0	0	0.00	0.0	0
SEP	1.23	5.0	1	0.00	0.0	1
OCT		0.0		0.00	0.0	0
NOV	0.00	0.0	0	122.27	7.0	2
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	1.23 9	5.0 10.0	1 9	122.27 10	7.0 10.0	3 10
PERCENTAGE OF PLANT EFFLUENT	0.01%			1.32%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WHITBY
 PLANT : PRINGLE CREEK WPCP NO 1
 WORKS NUMBER : 120000747
 WATERCOURSE : PRINGLE CREEK

REGION : CENTRAL
 DISTRICT : DURHAM, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.683
 POPULATION SERVED : 10,925
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC				0.70	23.0	1
TOTAL OBSERVATIONS	0.00 0	0.0 0.0	0 0	0.70 1	23.0 1.0	1 1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.07%		

SOUTHEAST REGION

1989 BYPASS OCCURRENCES

MUNICIPALITY : ARNPRIOR
 PLANT : ARNPRIOR WPCP
 WORKS NUMBER : 120000621
 WATERCOURSE : MADAWASKA RIVER

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 6.819
 POPULATION SERVED : 5,800
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	0.60	11.0	2	0.00	0.0	0
APR						
MAY	0.23	2.0	2			
JUN	0.50	3.5	3			
JUL	0.64	4.3	4			
AUG	0.10	0.8	2			
SEP	0.68	4.0	2			
OCT	0.46	3.5	2			
NOV	0.16	1.5	1			
DEC						
TOTAL	3.38	30.6	18	0.00	0.0	0
OBSERVATIONS	8	8.0	8	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.17%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : BARRY'S BAY
PLANT : BARRY'S BAY WPCP
WORKS NUMBER : 110001854
WATERCOURSE : KAMANISKEG LAKE

REGION : SOUTHEAST
DISTRICT : RENFREW
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.241
POPULATION SERVED : 1,413
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00	0.0	31	0.00	0.0	31
MAY	0.00	0.0	31	0.00	0.0	31
JUN	0.00	0.0	30	0.00	0.0	30
JUL	0.00	0.0	30	0.00	0.0	31
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL OBSERVATIONS	0.00 4	0.0 4.0	122 4	0.00 4	0.0 4.0	123 4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY :	BELLEVILLE	REGION :	SOUTHEAST
PLANT :	BELLEVILLE WPCP (163500 M3/D.	DISTRICT :	HASTINGS
WORKS NUMBER :	110000016	OP AUTHORITY :	MINISTRY OF THE ENVIRONMENT
WATERCOURSE :	BAY OF QUINTE	MINOR BASIN :	ONTARIO
		MAJOR BASIN :	GREAT LAKES

DESIGN CAPACITY : 54.552
 POPULATION SERVED : 35,351
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN				118.90	632.0	31
FEB	8.00		1	14.45		28
MAR	0.00	0.0	0	30.02	112.0	31
APR	0.00	0.0	0	135.40	356.0	17
MAY	0.00	0.0	0	27.30	147.0	31
JUN	0.00	0.0	30	34.09	107.0	30
JUL	0.00	0.0	31	0.00	0.0	31
AUG	0.00	0.0	31	0.00	0.0	31
SEP	0.00	0.0	30	0.00	0.0	30
OCT	0.00	0.0	31	69.23	74.0	31
NOV	64.00	0.0	30	373.56	385.0	30
DEC						
TOTAL	72.00	0.0	184	802.95	1,813.0	321
OBSERVATIONS	10	9.0	10	11	10.0	11
PERCENTAGE OF PLANT EFFLUENT	0.86%			9.55%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : BROCKVILLE
 PLANT : BROCKVILLE WPCP
 WORKS NUMBER : 120000122
 WATERCOURSE : ST.LAWRENCE RIVER

REGION : SOUTHEAST
 DISTRICT : LEEDS AND GRENVILLE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 21.820
 POPULATION SERVED : 20,607
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	2.0	0			
FEB	0.00		0			
MAR	0.00		0			
APR	0.00		0			
MAY	0.00		0			
JUN	0.00		0			
JUL	6.81		1			
AUG	0.00		1			
SEP	0.00		0			
OCT	0.00		0			
NOV	0.00		0			
DEC	0.00		1			
TOTAL	6.81	2.0	3	0.00	0.0	0
OBSERVATIONS	12	1.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.10%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : CARLETON PLACE
 PLANT : CARLETON PLACE WPCP
 WORKS NUMBER : 110000971
 WATERCOURSE : MISSISSIPPI RIVER

REGION : SOUTHEAST
 DISTRICT : LANARK
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.455
 POPULATION SERVED : 6,600
 TREATMENT : HIGH RATE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	1.38	1.0	1			
FEB						
MAR	5.54	372.0	10			
APR	40.07	352.0	20	0.00	0.0	0
MAY	29.30	292.0	19	0.00	0.0	0
JUN	0.00		0	0.00		0
JUL	0.00	0.0	0	0.00	0.0	0
AUG						
SEP	0.00		0	0.00		0
OCT						
NOV	0.00	26.0	12			
DEC						
TOTAL OBSERVATIONS	76.29 8	1,043.0 6.0	62 8	0.00 5	0.0 3.0	0 5
PERCENTAGE OF PLANT EFFLUENT	5.22%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : COBDEN
 PLANT : COBDEN WPCP
 WORKS NUMBER : 120000596
 WATERCOURSE : MUSKRAT RIVER

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.682
 POPULATION SERVED : 1,035
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0			
FEB	0.00	0.0	0			
MAR	1.03	32.0	4			
APR	0.00	0.0	0			
MAY	0.00	0.0	0			
JUN	0.00	0.0	0			
JUL	0.60	6.0	1			
AUG	0.00	0.0	0			
SEP	0.33	4.0	1			
OCT	0.05	1.0	1			
NOV	0.00		0			
DEC	0.00		0			
TOTAL	2.01	43.0	7	0.00	0.0	0
OBSERVATIONS	12	9.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.81%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : DEEP RIVER
 PLANT : DEEP RIVER WPCP
 WORKS NUMBER : 120000612
 WATERCOURSE : OTTAWA RIVER

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 2.182
 POPULATION SERVED : 4,230
 TREATMENT : PRIMARY
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	1.81		1			
MAR						
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.68	6.0	1	0.00	0.0	0
OCT	0.00		0	0.00		0
NOV	0.00		0	0.00		0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	2.49	6.0	2	0.00	0.0	0
OBSERVATIONS	11	8.0	11	10	8.0	10
PERCENTAGE OF PLANT EFFLUENT	0.40%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : DELORO
 PLANT : DELORO WPCP
 WORKS NUMBER : 120000970
 WATERCOURSE : MOIRA RIVER

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.746
 POPULATION SERVED : 157
 TREATMENT : COMMUNAL SEPTIC TANK
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB				2.27	9.5	2
MAR				4.05	16.9	3
APR				58.88	245.3	13
MAY				59.19	246.6	9
JUN				29.85	124.4	7
JUL				0.00	0.0	0
AUG						
SEP				0.00	0.0	0
OCT						
NOV				40.84	170.1	11
DEC						
TOTAL	0.00	0.0	0	195.08	812.8	45
OBSERVATIONS	0	0.0	0	8	8.0	8
PERCENTAGE OF PLANT EFFLUENT	0.40%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : DESERONTO
 PLANT : DESERONTO WPCP
 WORKS NUMBER : 110000980
 WATERCOURSE : BAY OF QUINTE

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.364
 POPULATION SERVED : 1,732
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN						
JUL						
AUG						
SEP						
OCT						
NOV	4.32	48.0	30			
DEC						
TOTAL	4.32	48.0	30	0.00	0.0	0
OBSERVATIONS	3	3.0	3	2	2.0	2
PERCENTAGE OF PLANT EFFLUENT	1.07%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : EGANVILLE
 PLANT : EGANVILLE WPCP
 WORKS NUMBER : 110000141
 WATERCOURSE : BONNECHERE RIVER

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.764
 POPULATION SERVED : 1,219
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00		1	0.00		1
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP						
OCT						
NOV						
DEC						
TOTAL	0.00	0.0	1	0.00	0.0	1
OBSERVATIONS	6	5.0	6	6	5.0	6
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : ERNESTOWN
 PLANT : ODESSA WPCP
 WORKS NUMBER : 110002041
 WATERCOURSE : MILLHAVEN CREEK

REGION : SOUTHEAST
 DISTRICT : LENNOX & ADDINGTON
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.909
 POPULATION SERVED : 973
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00	3.0	0	0.00	0.0	0
MAY						
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.00	3.0	0	0.00	0.0	0
OBSERVATIONS	3	3.0	3	3	3.0	3
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : GLOUCESTER
 PLANT : GREEN CREEK WPCP
 WORKS NUMBER : 120000729
 WATERCOURSE : OTTAWA RIVER

REGION : SOUTHEAST
 DISTRICT : OTTAWA-CARLETON, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 363.680
 POPULATION SERVED : 450,000
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY		2.3				
JUN						
JUL						
AUG						
SEP						
OCT						
NOV	0.00	161.0	13	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.00	163.3	13	0.00	0.0	0
OBSERVATIONS	6	7.0	6	6	6.0	6
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HAGARTY & RICHARDS
 PLANT : KILLALOE STN.WPCP
 WORKS NUMBER : 110001532
 WATERCOURSE : BRUDENELL CREEK

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.518
 POPULATION SERVED : 670
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00	0.0	31	0.00		31
MAY	0.00	0.0	31	0.00	0.0	31
JUN	0.00	0.0	30	0.00	0.0	30
JUL	0.00	0.0	31	0.00	0.0	31
AUG						
SEP						
OCT						
NOV						
DEC	0.00		31			
TOTAL OBSERVATIONS	0.00 5	0.0 4.0	154 5	0.00 4	0.0 3.0	123 4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HAWKESBURY
 PLANT : HAWKESBURY WPCP
 WORKS NUMBER : 110002283
 WATERCOURSE : OTTAWA RIVER

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 12.274
 POPULATION SERVED : 9,680
 TREATMENT : MODIFIED ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	6.21	1.2	2			
FEB	0.51	0.1	1			
MAR	125.92	24.3	5			
APR	14.51	2.8	2			
MAY	2.07	0.4	2			
JUN	24.35	4.7	8			
JUL	14.51	2.8	4			
AUG	31.61	6.1	4			
SEP	12.95	2.5	2			
OCT	35.75	6.9	5			
NOV	67.36	13.0	8			
DEC	6.21	1.2	1			
TOTAL	342.01	66.0	44	0.00	0.0	0
OBSERVATIONS	12	12.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	11.84%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : KINGSTON
 PLANT : KINGSTON WPCP
 WORKS NUMBER : 120001050
 WATERCOURSE : ST.LAWRENCE RIVER

REGION : SOUTHEAST
 DISTRICT : FRONTENAC
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 61.371
 POPULATION SERVED : 67,000
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	18.50	7.0	1			
FEB	0.00	0.0	0			
MAR	0.00	0.0	0			
APR	0.00	0.0	0			
MAY	0.00	0.0	0			
JUN	0.00	0.0	0			
JUL	0.00	0.0	0			
AUG	0.00	0.0	0			
SEP	0.00	0.0	0			
OCT	0.00	0.0	0			
NOV	0.00	0.0	0			
DEC	0.00	0.0	0			
TOTAL OBSERVATIONS	18.50 12	7.0 12.0	1 12	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.09%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : L'ORIGINAL
 PLANT : L'ORIGINAL WPCP
 WORKS NUMBER : 110001701
 WATERCOURSE : OTTAWA RIVER

REGION : SOUTHEAST
 DISTRICT : PRESCOTT AND RUSSELL
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.955
 POPULATION SERVED : 1,523
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	1.30	30.0	1			
FEB						
MAR						
APR						
MAY	7.77	144.5	7			
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	9.07	174.5	8	0.00	0.0	0
OBSERVATIONS	2	2.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	3.27%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NAPANEE
 PLANT : NAPANEE WPCP
 WORKS NUMBER : 120000186
 WATERCOURSE : NAPANEE RIVER

REGION : SOUTHEAST
 DISTRICT : LENNOX & ADDINGTON
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 9.092
 POPULATION SERVED : 7,500
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.00	0.0	0	0.00	0.0	0
MAR				1.09	12.0	1
APR	0.00	0.0	0	5.00	41.5	3
MAY	0.00	0.0	0	0.00	0.0	0
JUN						
JUL						
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	47.30		9	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	47.30	0.0	9	6.09	53.5	4
OBSERVATIONS	8	7.0	8	9	9.0	9
PERCENTAGE OF PLANT EFFLUENT	2.13%			0.27%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NEPEAN
 PLANT : WATTS CREEK WPCP
 WORKS NUMBER : 120000701
 WATERCOURSE : WATTS CREEK

REGION : SOUTHEAST
 DISTRICT : OTTAWA-CARLETON, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 29.549
 POPULATION SERVED : 52,500
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	121.80	140.6	13
APR	0.00	0.0	0	53.60	177.5	26
MAY	0.00	0.0	0	50.40	332.1	31
JUN				21.20		1
JUL				10.70		1
AUG				1.90		1
SEP				1.00		1
OCT	0.00	0.0	0	2.60	7.7	21
NOV	0.00	0.0	0	41.80	182.5	26
DEC	0.00	0.0	0	5.30	6.7	23
TOTAL	0.00	0.0	0	310.30	847.1	144
OBSERVATIONS	3	8.0	8	12	8.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			3.06%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : OSNABRUCK
 PLANT : INGLESIDE WPCP
 WORKS NUMBER : 120000140
 WATERCOURSE : ST. LAWRENCE RIVER

REGION : SOUTHEAST
 DISTRICT : STORMONT, DUNDAS AND GLENGARR
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.573
 POPULATION SERVED : 1,500
 TREATMENT : PRIMARY
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	0.36	1.0	1			
TOTAL OBSERVATIONS	0.36 1	1.0 1.0	1 1	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.09%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PETAWAWA
 PLANT : PETAWAWA WPCP
 WORKS NUMBER : 120000587
 WATERCOURSE : OTTAWA RIVER

REGION : SOUTHEAST
 DISTRICT : RENFREW
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
 POPULATION SERVED : 9,800
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00	0.0	30	0.00	0.0	0
MAY						
JUN	0.00	0.0	31	0.00	0.0	0
JUL	0.00	0.0	31	0.00	0.0	0
AUG						
SEP						
OCT	0.00		0	0.00		0
NOV						
DEC						
TOTAL	0.00	0.0	92	0.00	0.0	0
OBSERVATIONS	4	3.0	4	4	3.0	4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PICTON
 PLANT : PICTON WPCP
 WORKS NUMBER : 120000667
 WATERCOURSE : PICTON BAY

REGION : SOUTHEAST
 DISTRICT : PRINCE EDWARD
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
 POPULATION SERVED : 4,500
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	6.31	26.7	4
APR	0.00	0.0	0	1.72	7.3	1
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.00 12	0.0 12.0	0 12	8.03 12	34.0 12.0	5 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.79%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PRESCOTT
 PLANT : EDWARDSBURGH WPCP
 WORKS NUMBER : 110001122
 WATERCOURSE : ST. LAWRENCE RIVER

REGION : SOUTHEAST
 DISTRICT : LEEDS AND GRENVILLE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ST. LAWRENCE
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.683
 POPULATION SERVED : 4,595
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	24.5	0	0.00	0.0	0
FEB						
MAR	0.00	0.6	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	5.5	0	0.00	0.0	0
JUN						
JUL	0.00		0	0.00		0
AUG						
SEP	0.00	0.0	0	0.00	0.0	0
OCT						
NOV						
DEC						
TOTAL OBSERVATIONS	0.00 6	30.6 5.0	0 6	0.00 6	0.0 5.0	0 6
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SIDNEY
 PLANT : BATAWA WPCP
 WORKS NUMBER : 110000668
 WATERCOURSE : TRENT RIVER

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.568
 POPULATION SERVED : 300
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB						
MAR						
APR	0.00	0.0	0	1.47	0.0	2
MAY				0.37		1
JUN						
JUL						
AUG						
SEP				0.80		1
OCT				0.23		1
NOV				10.33		9
DEC	0.00		0		0.0	
TOTAL	0.00	0.0	0	13.20	0.0	14
OBSERVATIONS	3	2.0	3	6	3.0	6
PERCENTAGE OF PLANT EFFLUENT	0.00%			8.98%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SMITHS FALLS
 PLANT : SMITHS FALLS WPCP
 WORKS NUMBER : 120000890
 WATERCOURSE : RIDEAU RIVER

REGION : SOUTHEAST
 DISTRICT : LANARK
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 11.365
 POPULATION SERVED : 11,000
 TREATMENT : PRIMARY
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	2	0.00	0.0	2
FEB	0.00	0.0	0			
MAR	0.00	0.0	0			
APR	0.00	0.0	0			
MAY	0.00	0.0	0	0.00	0.0	0
JUN		5.5		0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP						
OCT						
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.00	5.5	2	0.00	0.0	2
OBSERVATIONS	9	10.0	9	7	7.0	7
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : TRENTON
 PLANT : TRENTON WPCP
 WORKS NUMBER : 110000775
 WATERCOURSE : BAY OF QUINTE

REGION : SOUTHEAST
 DISTRICT : HASTINGS
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 15.911
 POPULATION SERVED : 15,346
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00	0.0	0	0.00	0.0	0
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	0.00		0	0.00		0
NOV	21.98		3			
DEC	0.00		0	0.00		0
TOTAL	21.98	0.0	3	0.00	0.0	0
OBSERVATIONS	4	1.0	4	3	1.0	3
PERCENTAGE OF PLANT EFFLUENT	0.59%			0.00%		

1989 BYPASS OCCURRENCES

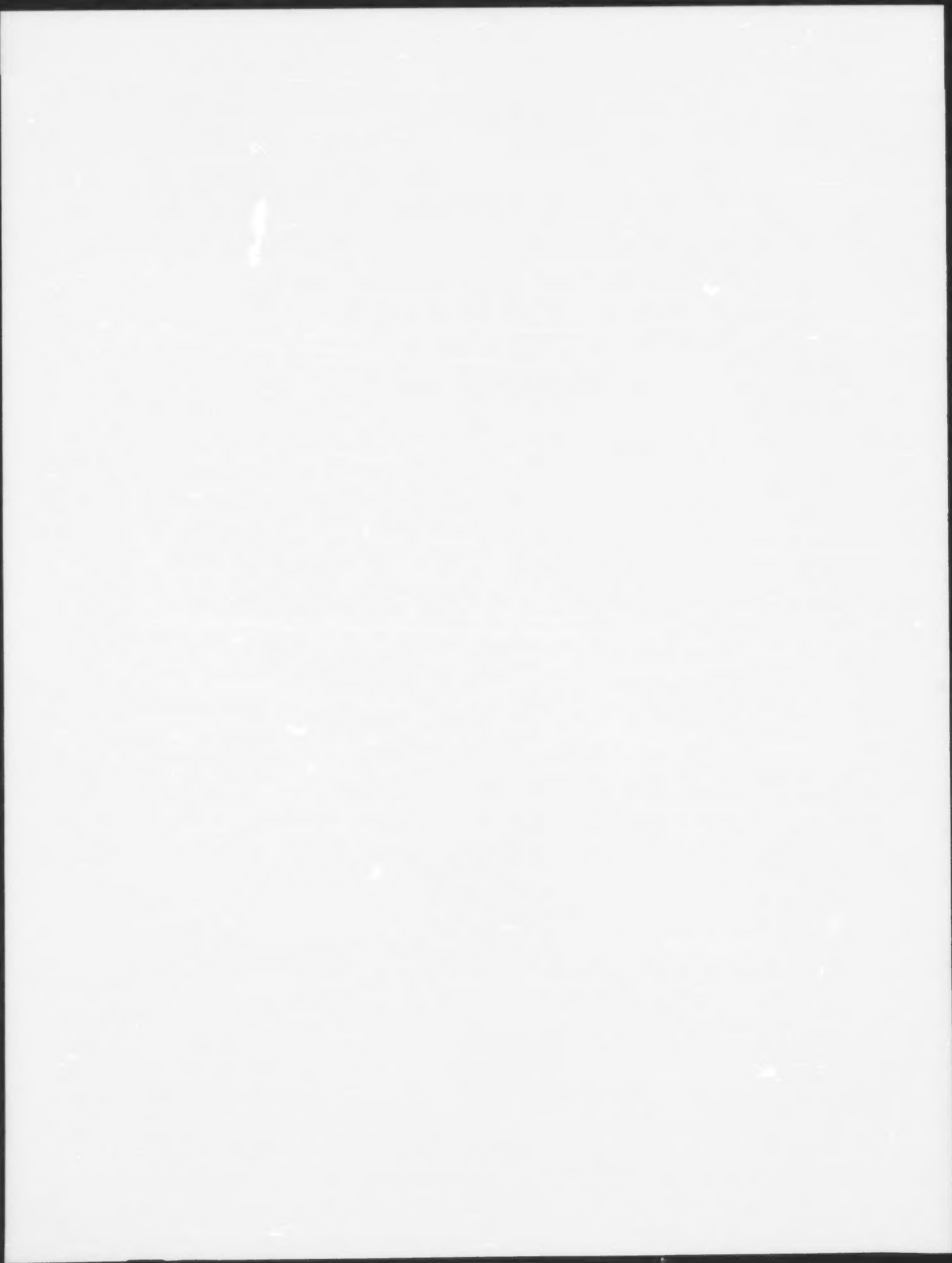
MUNICIPALITY : WELLINGTON
 PLANT : WELLINGTON WPCP
 WORKS NUMBER : 120003165
 WATERCOURSE : LAKE ONTARIO

REGION : SOUTHEAST
 DISTRICT : PRINCE EDWARD
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : ONTARIO
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.500
 POPULATION SERVED : 1,077
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.00		0	0.00		0
JUN						
JUL						
AUG	0.16	10.2	2	0.15	8.0	1
SEP	0.03	2.7	1			
OCT						
NOV	0.23	8.0	1			
DEC						
TOTAL	0.43	20.9	4	0.15	8.0	1
OBSERVATIONS	8	3.0	8	6	1.0	6
PERCENTAGE OF PLANT EFFLUENT	0.22%			0.08%		

NORTHEAST REGION



1989 BYPASS OCCURRENCES

MUNICIPALITY : BLACK RIVER MATHESON
 PLANT : MATHESON WPCP
 WORKS NUMBER : 110000025
 WATERCOURSE : BLACK RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.046
 POPULATION SERVED : 920
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	11.0	0	0.00		0
FEB						
MAR	0.00		31			
APR	0.44		30			
MAY	0.00		31			
JUN	0.00		30			
JUL	0.00		31			
AUG	0.00		31			
SEP	0.00		30			
OCT	0.00		31			
NOV	0.00		30			
DEC	0.00		31			
TOTAL	0.44	11.0	306	0.00	0.0	0
OBSERVATIONS	11	1.0	11	1	0.0	1
PERCENTAGE OF PLANT EFFLUENT	0.22%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : BLIND RIVER
 PLANT : BLIND RIVER WPCP
 WORKS NUMBER : 110002416
 WATERCOURSE : LAKE HURON

REGION : NORTHEAST
 DISTRICT : ALGOMA
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.500
 POPULATION SERVED : 3,200
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	5.02	23.0	2			
APR	0.00		0			
MAY						
JUN						
JUL						
AUG						
SEP	0.00		0			
OCT	0.00		0	0.00		0
NOV	0.00		0	0.00		0
DEC						
TOTAL	5.02	23.0	2	0.00	0.0	0
OBSERVATIONS	5	1.0	5	2	0.0	2
PERCENTAGE OF PLANT EFFLUENT	0.82%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : HORNEPAYNE
PLANT : HORNEPAYNE WPCP
WORKS NUMBER : 110001952
WATERCOURSE : JACKFISH RIVER

REGION : NORTHEAST
DISTRICT : ALGOMA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.364
POPULATION SERVED : 1,675
TREATMENT : EXTENDED AERATION
:
:

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	0.27	3.3	1			
TOTAL OBSERVATIONS	0.27 1	3.3 1.0	1 1	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.08%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : IROQUOIS FALLS
 PLANT : IROQUOIS FALLS WPCP
 WORKS NUMBER : 110002121
 WATERCOURSE : ABITIBI RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 4.091
 POPULATION SERVED : 5,575
 TREATMENT : CONTACT STABILIZATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN	6.82		1			
JUL						
AUG	6.36		1			
SEP						
OCT						
NOV						
DEC						
TOTAL	13.18	0.0	2	0.00	0.0	0
OBSERVATIONS	2	0.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	1.09%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : KAPUSKASING
 PLANT : KAPUSKASING WPCP
 WORKS NUMBER : 110003004
 WATERCOURSE : KAPUSKASING RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 9.092
 POPULATION SERVED : 12,500
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		31			
FEB	0.00		28			
MAR	0.00		31			
APR	0.00		25			
MAY						
JUN	0.00		28			
JUL	0.00		31			
AUG	0.00		18			
SEP	0.00		30			
OCT	0.00		20			
NOV	0.00	0.0	26			
DEC	0.00		31			
TOTAL OBSERVATIONS	0.00 11	0.0 1.0	299 11	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : KIRKLAND LAKE
 PLANT : KIRKLAND LAKE WPCP
 WORKS NUMBER : 120000015
 WATERCOURSE : MURDOCK CREEK

REGION : NORTHEAST
 DISTRICT : TIMISKAMING
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : OTTAWA RIVER
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 13.638
 POPULATION SERVED : 12,500
 TREATMENT : CONTACT STABILIZATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	33.41	117.7	16			
MAY	2.64	9.3	8			
JUN	2.69	9.5	5			
JUL	2.61	9.2	1			
AUG	2.33	8.2	1			
SEP						
OCT						
NOV						
DEC						
TOTAL	43.69	153.9	31	0.00	0.0	0
OBSERVATIONS	5	5.0	5	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	1.04%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MOOSONEE D.A.B.
 PLANT : MOOSONEE WPCP (NORTH)
 WORKS NUMBER : 120000319
 WATERCOURSE : MOOSE RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 0.250
 POPULATION SERVED : 300
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	29			
FEB	0.00		25			
MAR	0.00		8			
APR	0.00		12			
MAY	0.00		31			
JUN	0.00		26			
JUL	0.00		31			
AUG	0.00		28			
SEP	0.00		29			
OCT	0.00		22			
NOV	0.00		30			
DEC	0.00		31			
TOTAL	0.00	0.0	302	0.00	0.0	0
OBSERVATIONS	12	1.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MOOSONEE D.A.B.	REGION : NORTHEAST
PLANT : MOOSONEE WPCP (OLD TOWNSITE)	DISTRICT : COCHRANE
WORKS NUMBER : 110001060	OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : STORE CK TO MOOSE RIVER	MINOR BASIN : JAMES BAY
	MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 0.509
 POPULATION SERVED : 1,500
 TREATMENT : CONTACT STABILIZATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		30			
FEB	0.47	35.0	1			
MAR	0.06	4.0	1			
APR	0.00		13			
MAY	0.12	3.5	1			
JUN	0.00		30			
JUL	0.00		31			
AUG	0.00		26			
SEP	0.00		30			
OCT	0.00		22			
NOV	0.00		30			
DEC	0.00		31			
TOTAL	0.65	42.5	246	0.00	0.0	0
OBSERVATIONS	12	3.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.26%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NICKEL CENTRE
 PLANT : CONISTON WPCP
 WORKS NUMBER : 110000123
 WATERCOURSE : CONISTON CREEK

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.000
 POPULATION SERVED : 2,790
 TREATMENT : OXIDATION DITCH
 : CONVENTIONAL ACTIVATED SLUDGE
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	4.80	28.5	0			
APR	1.73	11.3	0			
MAY						
JUN	4.90		2			
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	11.44	39.8	2	0.00	0.0	0
OBSERVATIONS	3	2.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	2.41%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : NORTH BAY
 PLANT : NORTH BAY WPCP
 WORKS NUMBER : 110000533
 WATERCOURSE : LAKE NIPISSING

REGION : NORTHEAST
 DISTRICT : NIPPISSING
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 36.368
 POPULATION SERVED : 48,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	31	0.00	0.0	31
FEB	0.00		27	0.00		27
MAR	0.00		31	0.00		31
APR	0.00		30	0.00		30
MAY	0.00		31	0.00		31
JUN	0.00	0.0	30	0.00		30
JUL	0.00		31	0.00		30
AUG	0.00		31	0.00		31
SEP	0.00		30	0.00		30
OCT	0.00		31	0.00		31
NOV	0.00		30	0.00		30
DEC	0.00		31	0.00		31
TOTAL OBSERVATIONS	0.00 12	0.0 2.0	364 12	0.00 12	0.0 1.0	363 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : PARRY SOUND
 PLANT : PARRY SOUND WPCP
 WORKS NUMBER : 110000560
 WATERCOURSE : MC CURRY LAKE

REGION : NORTHEAST
 DISTRICT : PARRY SOUND
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 6.592
 POPULATION SERVED : 5,500
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	30			
FEB	0.00		28			
MAR	0.00		31			
APR	0.00		29			
MAY	0.00		31			
JUN	0.00		0			
JUL	0.00		31			
AUG	0.00		30			
SEP	0.00		28			
OCT	0.00		31			
NOV	0.00		29			
DEC	0.00		31			
TOTAL	0.00	0.0	329	0.00	0.0	0
OBSERVATIONS	12	1.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : CHELMSFORD WPCP
WORKS NUMBER : 120001568
WATERCOURSE : WHITSON RIVER

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.068
POPULATION SERVED : 4,934
TREATMENT : EXTENDED AERATION
: CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	12.73	48.0	2			
TOTAL OBSERVATIONS	12.73 1	48.0 1.0	2 1	0.00 0	0.0 0.0	0 0
PERCENTAGE OF PLANT EFFLUENT	0.91%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SAULT STE MARIE
 PLANT : WEST END WPCP
 WORKS NUMBER : 110002540
 WATERCOURSE : ST MARY'S RIVER

REGION : NORTHEAST
 DISTRICT : ALGOMA
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 18.184
 POPULATION SERVED : 80,000
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.1	31	0.0	0.0	0
FEB	0.20		1			
MAR	0.50		1			
APR	0.20		1			
MAY	0.10		1			
JUN	0.00		27			
JUL	2.50		1			
AUG	1.70		1			
SEP	1.00		1			
OCT	3.90		1			
NOV						
DEC	0.00		31			
TOTAL	10.10	0.1	97	0.00	0.0	0
OBSERVATIONS	11	1.0	11	0	1.0	0
PERCENTAGE OF PLANT EFFLUENT	0.38%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SMOOTH ROCK FALLS
 PLANT : SMOOTH ROCK FALLS WPCP
 WORKS NUMBER : 110002130
 WATERCOURSE : MATTAGAMI RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.637
 POPULATION SERVED : 2,251
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN	0.00		30			
JUL	0.00		1			
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.00	0.0	31	0.00	0.0	0
OBSERVATIONS	2	0.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : STURGEON FALLS
 PLANT : STURGEON FALLS WPCP
 WORKS NUMBER : 110001435
 WATERCOURSE : STURGEON RIVER

REGION : NORTHEAST
 DISTRICT : NIPPISSING
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
 POPULATION SERVED : 6,040
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		31			
FEB	0.00		28			
MAR						
APR	0.00		30			
MAY						
JUN	0.00		30			
JUL						
AUG	0.00		31			
SEP						
OCT	0.00		31			
NOV						
DEC	0.00		31			
TOTAL	0.00	0.0	212	0.00	0.0	0
OBSERVATIONS	7	0.0	7	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SUDBURY
 PLANT : SUDBURY WPCP
 WORKS NUMBER : 110000711
 WATERCOURSE : JUNCTION CREEK

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 68.190
 POPULATION SERVED : 95,000
 TREATMENT : HIGH RATE
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	162.99		6			
APR	120.05		8			
MAY						
JUN	100.00	52.5	4	45.50	34.0	2
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	383.04	52.5	18	45.50	34.0	2
OBSERVATIONS	3	1.0	3	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	2.52%			0.30%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : TIMMINS
 PLANT : MATTAGAMI WPCP
 WORKS NUMBER : 110000766
 WATERCOURSE : MATTAGAMI RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 34.095
 POPULATION SERVED : 33,000
 TREATMENT : PRIMARY
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	2.80		1			
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	2.80	0.0	1	0.00	0.0	0
OBSERVATIONS	1	0.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.04%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : TIMMINS
 PLANT : WHITNEY & TISDALE WPCP
 WORKS NUMBER : 110001391
 WATERCOURSE : PORCUPINE RIVER

REGION : NORTHEAST
 DISTRICT : COCHRANE
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 6.819
 POPULATION SERVED : 7,300
 TREATMENT : CONTACT STABILIZATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	1.98	8.1	1			
APR	19.44	3.3	1			
MAY	4.24	17.3	1			
JUN	2.33	9.5	0			
JUL						
AUG	4.37	17.8	1			
SEP						
OCT						
NOV						
DEC						
TOTAL	32.37	56.0	4	0.00	0.0	0
OBSERVATIONS	5	5.0	5	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	2.18%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : VALLEY EAST REGION : NORTHEAST
 PLANT : HAMNER, VAL-CARON, VAL-THERESE WDISTRICT : SUDBURY, REG. MUN.
 WORKS NUMBER : 110001541 OP AUTHORITY : MUNICIPAL
 WATERCOURSE : VERMILION RIVER MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 11.365
 POPULATION SERVED : 17,337
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	34.00	156.0	0			
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	34.00	156.0	0	0.00	0.0	0
OBSERVATIONS	1	1.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	1.20%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : WALDEN
 PLANT : LIVELY WPCP
 WORKS NUMBER : 120001185
 WATERCOURSE : MEATBIRD CREEK

REGION : NORTHEAST
 DISTRICT : SUDBURY, REG. MUN.
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : HURON
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.591
 POPULATION SERVED : 3,669
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	7.78		3			
APR	1.10		1			
MAY						
JUN	0.65	10.5	2			
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	9.53	10.5	6	0.00	0.0	0
OBSERVATIONS	3	1.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	1.80%			0.00%		

NORTHWEST REGION



1989 BYPASS OCCURRENCES

MUNICIPALITY : ATIKOKAN
 PLANT : ATIKOKAN WPCP
 WORKS NUMBER : 110001523
 WATERCOURSE : ATIKOKAN RIVER

REGION : NORTHWEST
 DISTRICT : RAINY RIVER
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 4.082
 POPULATION SERVED : 4,500
 TREATMENT : EXTENDED AERATION
 : PHOSPHORUS REMOVAL-CONTINUOUS
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		1			
FEB	0.00		1			
MAR						
APR						
MAY						
JUN	0.14	3.0	1	0.00	0.0	0
JUL	0.02	1.5	1	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.18	2.8	1	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.35 9	7.3 7.0	5 9	0.00 7	0.0 7.0	0 7
PERCENTAGE OF PLANT EFFLUENT	0.03%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : DRYDEN
 PLANT : DRYDEN WPCP
 WORKS NUMBER : 120000248
 WATERCOURSE : WABIGOON RIVER

REGION : NORTHWEST
 DISTRICT : KENORA
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 6.819
 POPULATION SERVED : 6,900
 TREATMENT : CONTACT STABILIZATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	1.81	4.0	1	0.37	1.5	1
FEB						
MAR						
APR						
MAY	0.99	4.0	1			
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	2.81	8.0	2	0.37	1.5	1
OBSERVATIONS	2	2.0	2	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.19%			0.03%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : EAR FALLS
 PLANT : EAR FALLS WPCP
 WORKS NUMBER : 110001006
 WATERCOURSE : ENGLISH RIVER

REGION : NORTHWEST
 DISTRICT : KENORA
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 2.864
 POPULATION SERVED : 1,750
 TREATMENT : EXTENDED AERATION
 : CONVERTIBLE OPERATING MODE
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB				0.00	0.0	0
MAR				0.00	0.0	0
APR				0.00	0.0	0
MAY				0.00	0.0	0
JUN				0.00	0.0	0
JUL				0.00	0.0	0
AUG				0.00	0.0	0
SEP	0.01	2.5	1	0.00	0.0	0
OCT				0.00	0.0	0
NOV				0.00	0.0	0
DEC						
TOTAL	0.01	2.5	1	0.00	0.0	0
OBSERVATIONS	1	1.0	1	10	10.0	10
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : FORT FRANCES
 PLANT : FORT FRANCES WPCP
 WORKS NUMBER : 110000258
 WATERCOURSE : RAINY RIVER

REGION : NORTHWEST
 DISTRICT : RAINY RIVER
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 9.092
 POPULATION SERVED : 8,750
 TREATMENT : PRIMARY
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	1	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.00 11	0.0 11.0	1 11	0.00 11	0.0 11.0	0 11
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : GERALDTON
 PLANT : GERALDTON WPCP
 WORKS NUMBER : 110001649
 WATERCOURSE : LAKE KENOGAMISIS

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : JAMES BAY
 MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.814
 POPULATION SERVED : 2,901
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN				0.00	0.0	0
FEB				0.00	0.0	0
MAR				0.00	0.0	0
APR	4.94	0.0	7	0.00	0.0	0
MAY	5.19	0.0	7	0.00	0.0	0
JUN	0.54	0.0	1	0.00	0.0	0
JUL				0.00	0.0	0
AUG				0.00	0.0	0
SEP				0.00	0.0	0
OCT				0.00	0.0	0
NOV				0.00	0.0	0
DEC				0.00	0.0	0
TOTAL	10.67	0.0	15	0.00	0.0	0
OBSERVATIONS	3	3.0	3	12	12.0	12
PERCENTAGE OF PLANT EFFLUENT	1.68%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : GOLDEN
 PLANT : BALMERTOWN WPCP
 WORKS NUMBER : 110003291
 WATERCOURSE : BALMER CREEK

REGION : NORTHWEST
 DISTRICT : KENORA
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 1.227
 POPULATION SERVED : 1,300
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.00	0.0	0	0.00	0.0	0
MAR						
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	1	0.00	0.0	0
JUN	0.50	16.0	1	0.00	0.0	0
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.50	16.0	2	0.00	0.0	0
OBSERVATIONS	4	4.0	4	4	4.0	4
PERCENTAGE OF PLANT EFFLUENT	0.13%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : KENORA
 PLANT : KENORA WPCP
 WORKS NUMBER : 120000239
 WATERCOURSE : WINNIPEG RIVER

REGION : NORTHWEST
 DISTRICT : KENORA
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 18.184
 POPULATION SERVED : 12,000
 TREATMENT : EXT AERATION/CONT STABLIZATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV					10.0	
DEC						
TOTAL	0.00	0.0	0	0.00	10.0	0
OBSERVATIONS	0	0.0	0	0	1.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : MARATHON
 PLANT : MARATHON WPCP
 WORKS NUMBER : 120000471
 WATERCOURSE : LAKE SUPERIOR

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.400
 POPULATION SERVED : 5,000
 TREATMENT : EXTENDED AERATION
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.16	2.0	1	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.16 12	2.0 12.0	1 12	0.00 12	0.0 12.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.02%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : RED ROCK
 PLANT : RED ROCK WPCP
 WORKS NUMBER : 120001817
 WATERCOURSE : NIPIGON BAY

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.273
 POPULATION SERVED : 1,150
 TREATMENT : PRIMARY
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0			
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.18		0			
JUN						
JUL	0.00		0			
AUG	0.00		0			
SEP	0.00		0			
OCT	0.00		0			
NOV	0.00		0			
DEC						
TOTAL OBSERVATIONS	0.18 10	0.0 0.0	0 10	0.00 3	0.0 0.0	0 3
PERCENTAGE OF PLANT EFFLUENT	0.06%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SCHREIBER
 PLANT : SCHREIBER WPCP
 WORKS NUMBER : 110002112
 WATERCOURSE : CREEK TO L.SUPERIOR

REGION : NORTHWEST
 DISTRICT : THUNDER BAY
 OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
 MINOR BASIN : SUPERIOR
 MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.137
 POPULATION SERVED : 1,937
 TREATMENT : EXTENDED AERATION
 : CONTACT STABILIZATION
 : CONVERTIBLE OPERATING MODE

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	24.0	10	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL OBSERVATIONS	0.00 12	24.0 12.0	10 12	0.00 12	0.0 12.0	0 12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1989 BYPASS OCCURRENCES

MUNICIPALITY : SIOUX LOOKOUT
 PLANT : SIOUX LOOKOUT WPCP
 WORKS NUMBER : 120000220
 WATERCOURSE : PELICAN LAKE

REGION : NORTHWEST
 DISTRICT : KENORA
 OP AUTHORITY : MUNICIPAL
 MINOR BASIN : LAKE WINNIPEG EAST
 MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 2.273
 POPULATION SERVED : 3,006
 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
 :
 :

PLANT BYPASS				SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	1.32		1
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG						
SEP						
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00		0	0.00		0
DEC	0.00	0.0	0	0.00		0
TOTAL OBSERVATIONS	0.00 10	0.0 5.0	0 10	1.32 10	0.0 4.0	1 10
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.20%		